

102
26/1/88



भारत का राजपत्र

The Gazette of India

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं० 31] नई दिल्ली, शनिवार, जुलाई 30, 1988 (श्रावण 8, 1910)
No. 31] NEW DELHI, SATURDAY, JULY 30, 1988 (SRAVANA 8, 1910)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके ।
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE
PATENTS AND DESIGNS

Calcutta, the 30th July 1988

ADDRESS AND JURISDICTION OF OFFICES OF
THE PATENT OFFICE

The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below :—

Patent Office Branch,
Todi Estates,
III Floor, Lower Parel (West),
Bombay-400 013.

Telegraphic address "PATOFFICE".

The States of Gujarat, Maharashtra,
and Madhya Pradesh, and the Union
Territories of Goa, Daman and Diu
and Dadra and Nagar Haveli.

Patent Office Branch,
Unit No. 401 to 405, III Floor
Municipal Market Building,
Saraswati Marg, Karol Bagh,
New Delhi-110 005.

Telegraphic address "PATENTOFIC".

The States of Himachal Pradesh, Jammu and Kashmir, Punjab,
Rajasthan and Uttar Pradesh and
the Union Territories of Chandigarh
and Delhi.

Patent Office Branch,
61, Wallajah Road,
Madras-600 002.

The States of Andhra Pradesh,
Karnataka, Kerala, Tamilnadu,
and the Union Territories of
Pondicherry, Laccadive, Minicoy
and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office, (Head Office)
"NIZAM PALACE", 2nd M. S. O. Building,
5th, 6th and 7th Floor,
234/4, Acharya Jagadish Bose Road,
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate offices of the Patent Offices.

Fees —The fees may either be paid in cash or may be sent by Money Order or Postal Order payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

APPLICATION FOR PATENTS FILED AT
THE HEAD OFFICE
234/4, ACHARYA JAGADISH BOSE ROAD
CALCUTTA-20
Calcutta, the 30th July 1988

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

The 23rd June 1988

- 512/Cal/88. Zeuna-Starker GmbH & CO. Kg. The procedure and device for the cleaning of a soot filter.
- 513/Cal/88. Netzsch-Mohnpumpen GmbH. Swivel Coupling.
- 514/Cal/88. Alexandr Semenovich Bukatov; Andrei Visilievich Agafonov; Anatoly Stepanovich Kostretsov. Heart Valve Prosthesis.
- 515/Cal/88. Kvaerner Engineering A/S. A method and a plant for transport of hydrocarbons over a long distance from an offshore source of hydrocarbons.

The 24th June 1988

- 516/Cal/88. (1) Mitsui Toatsu Chemicals, Incorporated (2) Koywa Gas Chemical Industry Co., Ltd. Purification process of methacrylic acid.
- 517/Cal/88. (1) Mitsui Toatsu Chemicals, Incorporated; (2) Kyowa Gas Chemical Industry Co., Ltd. Quenching process of reaction product gas containing methacrylic acid and treatment method of quenched liquid.

The 27th June 1988

- 518/Cal/88. Nova Medical Pty. Limited. Suction operation collecting bag. (Convention dated 26th June, 1987) Australia.
- 519/Cal/88. Nova Medical Pty. Limited. Slow delivery injection device. (Convention dated 25th June, 1987) Australia.
- 520/Cal/88. Aerospatiale Societe Nationale Industrielle S.A. and Etablissement Public De L'Etat Dit : Office National D'Etudes Et De Recherches Aerospatiales. A blade with curved end for a rotary airfoil of an aircraft.

The 28th June 1988

- 521/Cal/88. Tejendra Garg. Improvements in or relating to apparatus for generating gases like acetylene.
- 522/Cal/88. Tejendra Garg. Improvements in or relating to the means for feeding carbide in acetylene generators.
- 523/Cal/88. Chloride India Limited. Method of producing low antimony-content tubular grids for positive electrodes of lead acid storage batteries.
- 524/Cal/88. Digital Equipment Corporation. Apparatus and method for providing an extended processing environment on nonmicrocoded data processing system.
- 525/Cal/88. Digital Equipment Corporation. Apparatus and method for synchronization of access to main memory signal groups in a multiprocessor data processing system.
- 526/Cal/88. Digital Equipment Corporation. Apparatus and method for main memory unit protection using access and fault logic signals.
- 527/Cal/88. Digital Equipment Corporation. Apparatus and method for control of asynchronous program interrupt events in a data processing system.

- 528/Cal/88. Digital Equipment Corporation. Apparatus and method for recovering from missing page faults in vector data processing operations.
- 529/Cal/88. Digital Equipment Corporation. Apparatus and method for data induced condition signaling.
- 530/Cal/88. Materials Consultants Oy. Absorbable material for fixation of tissues.
- 531/Cal/88. (1) Institut Khimicheskoi Fiziki Akademii Nauk SSSR; (2) Groznensky Filial Okhtinskogo Nauchno-proizvodstvennogo Obiedinenia "Plastipolimer. Process for producing Butene-1.
- 532/Cal/88. Ukrainsky Institut Inzhenerov Vodnogo Khoz-yaistva Electrolyzer for the purification of waste water.
- 533/Cal/88. Moskovskoe Vysshee Tekhnicheskoe Uchilische Imeni N. E. Bauman. Scanning device for ultrasonic quality control of articles.

APPLICATION FOR PATENTS FILED AT
THE PATENT OFFICE BRANCH
MUNICIPAL MARKET BUILDING, IIIrd FLOOR
KAROL BAGH, NEW DELHI-110 005.

The 23rd May 1988

- 452/Del/88. Societe De Conseils De Recherches Et D'Applications Scientifiques (S.C.R.A.S.), "New 5-methoxy alkyl ammonium tetrahydrofurans and tetrahydrothiophenes". (Convention date 29th May, 1987) (U. K.).
- 453/Del/88. Elsworth Biotechnology Ltd., "Thermophilic ethanol production". (Convention date 27th May, 1987) (U. K.).
- 454/Del/88. L. B. Transmissions Meccaniche S.R.L., "Epicycloidal gearbox without bearings for supporting the separate fitted outlet shaft".
- 455/Del/88. Societe De Conseils De Recherches Et D'Applications Scientifiques (S.C.R.A.S.), "New 5-(W-ammonia acyloxy methylene) tetrahydrofurans and tetrahydrothiophenes". (Convention date 29th May, 1987) (U. K.).
- 456/Del/88. Devtech, Inc. "One piece self-standing blow molded plastic containers".

The 24th May 1988

- 457/Del/88. Sunandan Kumar, "Snow melt tank".
- 458/Del/88. Sunandan Kumar, "Incinerator type toilet".
- 459/Del/88. Compagnie Francaise D'Etudes Et De Construction "Technip" "Improvements in or relating to method and plant for the production of styrene".
- 460/Del/88. Atlas Power Co., "Multi directional signal transmission in a blast initiation system".
- 461/Del/88. Iev International Pty. Ltd., "Apparatus for the combatting of marine growth on offshore structures".
- 462/Del/88. The University of Sydney, "Rotor arrangement for a rotorcraft". (Convention date 25th May, 1987) (Australia).

The 25th May 1988

- 463/Del/88. Allegheny Ludlum Steel Corporation, "Method of directly casting molten metal to continuous strip of crystalline metal". [Divisional date 22nd August, 1985].
- 464/Del/88. Vladimir Pavlovich Sergeev & others., "Turbo-molecular vacuum pump".

465/Del/88. Uniroyal Chemical Co. Inc., "Tire having tread comprising of E.P.D.M./unsaturated rubber blend".

466/Del/88. Institut Strukturoi Makrokinetiki Akademii Nauk SSSR., "Process for producing superconducting oxide material".

The 26th May 1988

467/Del/88. Subhash Chandra Jangir, "Manufacturing/New and improved gas engine named as jala gas engine".

The 27th May 1988

468/Del/88. Alcan International Ltd., "Probe for determination of gas concentration in molten metal". (Convention date 28th May, 1987) (Canada).

The 30th May 1988

469/Del/88. Albright & Wilson Ltd., "Liquid detergent compositions". (Convention date 10th June, 1987) (U. K.).

470/Del/88. The Lubrizol Corporation, "Anti-oxidant compositions".

471/Del/88. The Lubrizol Corporation, "Nitrogen-containing antioxidant compositions".

472/Del/88. Bharat Heavy Electricals Ltd., "Device for the estimation of gas constant of freon 12-air mixture".

473/Del/88. Council of Scientific & Industrial Research, "An improved cell for determining the performance characteristics of sodium sulphur cell".

474/Del/88. Council of Scientific & Industrial Research, "Improvements in or relating to electrodeposition of cadmium from a perchlorate based electrolyte".

475/Del/88. Council of Scientific & Industrial Research, "Process for the preparation of a catalyst composite material".

476/Del/88. Council of Scientific & Industrial Research, "Improved electrolytic cell for the production of potassium iodate and a process for the production of potassium iodate using the cell".

477/Del/88. Council of Scientific & Industrial Research, "An improved device for converting solar energy to thermal energy".

The 31st May 1988

478/Del/88. Ashesh Chandra Mishra, "Fertility and sterility control method for living substances".

479/Del/88. National Council for Cement and Building Materials, "Flexible intermediate bulk container".

480/Del/88. International Business Machines Corporation, "Machine/user conversation windowing".

481/Del/88. Shell Oil Company, "Process for inhibiting the spontaneous oxidation of low rank coal".

482/Del/88. Ramon Rovitra Mestres & others, "Syringe to inject fluids, with a device applied to its programmed unserviceability".

483/Del/88. International Business Machines Corporation, "Operator aided data processing".

484/Del/88. International Business Machines Corporation, "Wire dot matrix print head".

The 1st June 1988

485/Del/88. Council of Scientific and Industrial Research, "An improved process for making short ceramic composite fibres".

486/Del/88. Council of Scientific and Industrial Research, "A new process for making short ceramic composite fibres".

487/Del/88. Bowater Packaging Ltd., "Method and apparatus for the continuous preservation of lumpy product such as food product in lump form".

488/Del/88. Gaslow International Ltd., "Gas quantity measuring device".

489/Del/88. Glaverbel, "A process of forming a refractory mass on a surface". (Convention date 26th January, 1985) (U. K.). [Divisional date 28th November, 1985].

The 2nd June 1988

490/Del/88. Bharat Heavy Electricals Ltd., "A device for counter-sinking holes in tube plates of condensers in steam power plants".

The 3rd June 1988

491/Del/88. The Gillette Company, "Process and apparatus for providing cutting edges".

The 3rd June 1988

492/Del/88. Emhart Industries Inc., "Improved card reader".

493/Del/88. Albright & Wilson Ltd., "Textile treatment". (Convention date 5th June, 1987) (U. K.).

494/Del/88. Societe De Conseils De Recherches Et D'Applications Scientifiques (S.C.R.A.S.), "New aminoacylates of glycerol acetal". (Convention date 12th June, 1987) (U. K.).

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH 61, WALLAJAH ROAD, MADRAS-600 002

The 6th June 1988

383/Mas/88. Air products and Chemicals Inc., Process for making highly permeable coated composite hollow fiber membranes.

384/Mas/88. Mitsubishi Denki Kabushiki Kaisha. Switch operating mechanism.

The 7th June 1988

385/Mas/88. N. Harman. The method by which composite chrome ore fines and/or concentrates plus coke and/or coal briquettes are produced and utilised in the production of ferric chrome alloys.

386/Mas/88. Heinz Georg Baus. Shower-Partition.

387/Mas/88. Rautaruukki Oy. A stacking apparatus.

The 8th June 1988

388/Mas/88. AKZO nv. Process for inserting silicon atoms in place of aluminium atoms into the crystal lattice of a faujasite type zeolite.

389/Mas/88. Firma Theodor Hymmen. Method of one or two-side coating of this plates.

390/Mas/88. Heinz Georg Baus. Partition, more particularly for a corner or circular shower.

391/Mas/88. Mitsubishi Kinzoku Kabushiki Kaisha and Mitsubishi Denki Kabushiki Kaisha. Cathode for an electron tube.

392/Mas/88. Onoda Cement Company, Ltd., Method of cooling clinker and apparatus therefor.

The 9th June 1988

(2)

393/Mas/88. M. Jalandhara Bhat & M. Vishwanatha Bhat
Irrigation purpose named as nutan jet sprinkler.

156558	156559	156560	156561	156562	156563	156564
156565	156566	156567	156568	156569	156570	156571
156572	156573	156574	156575	156576	156577	156578
156579	156580	156581	156582	156583	156584	156585
156586	156587	156588	156589	156590	156591	156592

394/Mas/88. Caterpillar Inc., Method for detecting an
underinflated tire by monitoring a work vehicle
suspension.

The 10th June 1988

(3)

395/Mas/88. Heinz Georg Baus. Method and apparatus
for producing multilayer panels.

156593	156594	156595	156596	156597	156598	156599
156600	156601	156602	156603	156604	156605	156606

ALTERATION OF DATE

(4)

162972.
(910/Mas/84)

Ante dated to 13th January, 1984.

156607	156608	156609	156610	156611	156612	156613
156614	156615	156616	156617	156618	156619	156620
156621	156622	156623	156624	156625	156626	156627
156628	156629	156630	156631	156632	156633	156634

162977.
(113/Mas/85)

Ante dated to 30th March, 1982.

(5)

163060
(544/Dcl/86)

Ante dated to 28th July, 1983.

156635	156636	156637	156638	156639	156640	156641
156642	156643	156644	156645	156646	156647	156648
156649	156650					

COMPLETE SPECIFICATION ACCEPTED

PATENTS SEALED

(See Page 715)

OPPOSITION PROCEEDINGS

(1)

An opposition has been entered into by Honda Giken
Kogyo Kabushiki Kaisha, Japan to the grant of a Patent
on application for Patent No 161597 made by Bajaj Auto
Limited, Pune.

158709	160082	160364	160367	160482	160483	160484
160485	160486	160487	160489	160490	160491	160496
160497	160500	160501	160504	160508	160509	160510
160511	160513	160514	160515	160516	160517	160518
160519	160523	160526	160527	160528	160532	160533
160534	160537	160539	160540	160543	160544	160545
160546	160573	160594	160595	160596	160598	160599
160659	160660	160661	160662	160663	160664	160801
160802	160803	160804	160805	160807	160860	160867
160871	160929	160936	160940	160948	160981	161005
161373						

(2)

An opposition has been entered into by PIAGGIO &
C S P. A., Italy to the grant of a Patent on application for
Patent No 161597 made by BAJAJ AUTO LIMITED,
PUNECLAIM UNDER SECTION 20(1) OF
THE PATENTS ACT, 1970The claim made by STOODY DELOROSTELLITE INC.,
under Section 20(1) of the Patents Act, 1970 to proceed
the application for Patent No. 161777 in their name has
been allowed.NO. OF PATENTS SEALED MONTH-WISE FROM
1st JANUARY, 1988 TO 24th JUNE, 1988

	Jan.	Feb.	March	April	May	June	Total
INDIAN :	54	56	67	45	100	108	430
FOREIGN :	185	118	133	138	224	280	1078
TOTAL :	239	174	200	183	324	388	1508

CORRECTION UNDER SECTION 78

In accordance with the Provision under Section 78 of the
Patents Act, 1970, Claim 12 in respect of Patent Application
No. 161028 has been deleted by way of Correction before
sealing of a Patent and the remaining claim 13 renumbered
as Claim 12.

PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted
specifications are available for sale from the Patent Office,
Calcutta and its branches at Bombay, Madras and New Delhi
at two rupees per copy :—

(1)

156532	156533	156534	156535	156536	156537	156538
156539	156540	156541	156543	156544	156545	156546
156547	156548	156549	156550	156551	156552	156553
156554	156555	156556	156557			

RENEWAL FEES PAID

141007	142172	143450	143556	144016	144422	144742
144919	145101	145310	145539	145638	145684	145889
146140	146426	146480	146610	146787	146960	147523
148254	148311	148522	148574	148753	148813	149253
149416	149417	149632	149693	149889	149944	150083
150099	150510	150718	150811	151014	151058	151228
151262	151395	151535	151563	151677	151723	151814
152166	152255	152332	152333	152504	152602	152528
152648	152652	152679	152736	152807	152814	153144
153150	153565	153622	153708	153711	154051	154121
154145	154146	154230	154350	154436	154619	154673
154891	154941	155071	155080	155097	155131	155170

155367 155416 155646 155761 155765 155820 155971
 156019 156249 156384 156450 156528 156534 156643
 156669 156764 156896 156972 157033 157422 157595
 157660 157700 157753 157939 158024 158104 158201
 158316 158505 158596 158666 158800 158820 158853
 159055 159076 159421 159556 159689 159786 160329
 160330 160369.

CESSATION OF PATENTS

151827 156836 156843 157032 157202.
 141471 141473 141477 141478 141480 141484 141487
 141488 14190 141491 141492 141493 141499 141500
 141503 141508 141514 141517 141519 141522 141529
 141530 141531 141533 141535 141538 141540 141541
 141542 141543 141544 141545 141547 141548 141550
 141551 141553 141554 141556 141557 141559 141565
 141568 141569 141570 141574 141575 141578 141586
 141587 141589 141590 141591 141592 141593 141594
 141595 141601 141607 141609 141611 141615 141616
 141621 141623 141624.

RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 158165 granted to Esmond Fonseca, Randgi Venkata Ramesh And Fredrick Elto for an invention relating to "assembly of sections panels or any other Prefabricated items".

The patent ceased on the 17th February, 1988 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 14th May, 1988.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagdish Bose Road, Calcutta-700017 on or before the 30th September 1988 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 153250 granted to Dr. Upendra Nath Bhargava for an invention relating to "a process for the purification of iron power containing occluded hydrogen gas".

The Patent ceased on the 29th May, 1987 due to the non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 7th May, 1988.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagdish Bose Road, Calcutta-700017 on or before the 30th September 1988 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 148065 granted to Bharat Bijlee Limited for an invention relating to "a variable static relay for controlling power supply to load or loads".

The Patent ceased on the 10th August, 1987 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 7th May, 1988.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagdish Bose Road, Calcutta-700017 on or before the 30th September 1988 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. Nos. 159168 to 150170. Mag Instrument, Inc., a corporation of the State of California, 1635 South Sacramento Avenue, Ontario, California 91761, United States of America. "Tailcap Switch-Focus Flash Light". 17th December, 1987.

Class 1. No. 159178. Kangaro Industries, an Indian registered Partnership firm. "Hand Plier". 22nd December, 1987.

Class 1. No. 158179. Jain Manufacturing Co., a registered Partnership firm. "Stapler". 22nd December, 1987.

Class 1. No. 159607. Team Computers Pvt. Ltd., B-12, Somdatt Chambers-I, 5, Bhikaji Cama Place, Africa Avenue, New Delhi-110066, India, "Surge Filter". 18th April, 1988.

Class 3. 159080. Eagle Flask Private Limited, (an Indian Company) at Eagle Estate, Talegaon-410507, District-Pune, Maharashtra State, India. "Jug". 1st December, 1987.

Class 3. Nos. 159137 & 159140. Dunlop India Limited, "Dunlop House 57B Mirza Ghalib Street, Calcutta-700 016, West Bengal, India, an Indian Company. "Tyre". 8th December, 1987.

Class 3. No. 159156. S. N. Electrotalk Industries, Proprietor Shiv Sinhal, Sinhal Agencies Building, Sevoke Road, Siliguri, West Bengal, India, an Indian Proprietorship concern. "Electronic Intercom & Telephones". 14th December, 1987.

Class 3. 159166. Lakme Limited, of Bombay House, Homi Mody Street, Bombay-400001, Maharashtra State, India, an Indian Company. "a Lipstick Container". 16th December, 1987.

Class 3. 159167. Lakme Limited, of Bombay House, Homi Mody Street, Bombay-400001, Maharashtra State, India, an Indian Company. "a Lipstick Container". 17th December, 1987.

Class 3. No. 159173. Shree Krishnakeshav Laboratories Limited, an Indian Company of Amraiwadi Road, Ahmedabad-380008, Gujarat, India. "Blood Sampler Device". 21st December, 1987.

Class 3. No. 159175. Schwan Stabilo Schwanhauser GmbH & Co., of Maxfeldstrasse, D-8500 Nurnberg-1, West Germany, a company organised and existing under the laws of Federal Republic of Germany. "Ball Point Pen". 21st December, 1987.

Class 3. No. 159176. Superflo Private Limited, an Indian Company of 7.1.216/A, Amcerpet, Hyderabad-500016, India. "Filter for Tanks for liquids". 21st December, 1987.

Class 3. Nos. 159186 to 159195 & 159198, 159199. Bata India Limited, 30, Shakespeare Sarani, Calcutta-700017, West Bengal, India. a "sole for the footwear". 28th December, 1987

Class 3. No. 159454. Rannyware Industries, 3c/239, N.I.T. Faridabad (Haryana), India, a Proprietorship firm. "Plate" 2nd March, 1988.

Class 3. Nos. 159744 & 159745. Rannyware Industries 3c/239, N.I.T. Faridabad (Haryana), India, a Proprietorship firm. "Plate", 26th May, 1988.

Class 3. No. 159746. Rannyware Industries, 3c/239, N.I.T. Faridabad (Haryana), India, a Proprietorship firm. "Bowl". 26th May, 1988.

Class 3. No. 159747. Alfa Engineering Company, C-1/6, S. D. A. Hauz Khas, New Delhi-110016, India, a partnership firm. "Lag for lattice conveyors", 26th May, 1988.

Class 3. No. 159748. Rannyware Industries, 3c/239, N.I.T. Faridabad (Haryana), India, a proprietorship firm. "Casserole". 26th May, 1988.

Extn. of Copyright for the Second period of five years.

Nos. 157289, 157299, 157573, 157591. Class-1.

Nos. 157286, 157287, 157288, 1555085, 155958, 157570 157569. Class-3.

Extn. of Copyright for the Third period of five years.

No. 157299, 157573, 157591. Class-1.

Nos. 155085, 155958, 157570, 157569. Class-3.

NAME INDEXES OF APPLICANTS FOR PATENTS FOR THE MONTH OF FEBRUARY, 1988 (Nos. 82/Cal/88 TO 176/Cal/88, 23/Bom/88 TO 46/Bom/88, 63/Mas/88 TO 130/Mas/88 AND 81/Del/88 TO 155/Del/88.

Name & Appln. No.

A

A. Ahlstrom Corporation.—129/Mas/88.

ABB Stal AB.—127/Del/88.

ARI Technologies, Inc.—99/Mas/88

Acharyya, N. C.—130/Cal/88.

Advisory Board of Energy & Nimbkar Agricultural Research Institute.—83/Del/88.

Air Preheater Company, The.—112/Cal/88.

AKZO NV.—11/Mas/88

Alcan International Limited.—146/Del/88.

Alimak AB.—100/Mas/88.

Alperin Technical Pty, Ltd.—128/Mas/88.

Alsthom.—153/Del/88.

Altrack Limited.—124/Mas/88.

Ammonia Casale S. A.—105/Mas/88.

Amoco Corporation.—89/Del/88.

Apple Computer, Inc.—135/Del/88.

Asahi Kasei Kogyo Kabushiki Kaisha.—134/Cal/88

Associated Electronics Research Foundation.—86/Del/88, 87/Del/88, 88/Del/88.

Autoipari Kutato Es Fejlesztzo Vallalat.—99/Del/88.

Name & Appln. No.

B

B. F. Goodrich Company, The.—114/Del/88, 155/Del/88

B. V. Raythem S. A.—77/Mas/88.

Bayer Aktiengesellschaft.—151/Del/88.

Belorussky Gosudarstvenny Universitet Imeni V. I. Lenina.—142/Cal/88.

Betz International, Inc.—155/Cal/88, 156/Cal/88, 157/Cal/88.

Bhattacharya, B. C.—151/Cal/88, 152/Cal/88.

Bigotec AG.—170/Cal/88.

Biolandes.—85/Del/88.

Bishop, D. H. L.—93/Mas/88.

Block, W.—148/Cal/88.

Borsig GMBH.—79/Mas/88.

Bourrier, P. M. P.—109/Mas/88.

Brilcut Patentanstalt.—113/Cal/88.

C

C. A. Blockers, Inc.—86/Mas/88.

CLE.—84/Del/88.

Carl Edelman Verpackungstechnik GmbH.—121/Cal/88.

Chief Controller of Research & Development, The.—128/Del/88.

Chowdhury, U.—32/Bom/88.

Colgate-Palmolive Company.—116/Del/88, 138/Del/88.

Colorization Inc.—102/Mas/88.

Combustion Engineering, Inc.—136/Cal/88.

Compair Broomwade Limited.—102/Del/88.

Council for mineral Technology—13/Del/88.

Council of Scientific and Industrial Research.—150/Del/88.

D

Daibrasive International Ltd.—124/Del/88.

Dameshek, G. A.—141/Cal/88.

Dana Corporation.—72/Mas/88.

Danby Developments Inc.—117E/Mas/88.

Das Gupta, B.—149/Cal/88.

Das, U. K.—129/Cal/88.

Daudkhane, S. S.—38/Bom/88.

Daystar Electronics Pvt. Ltd.—30/Bom/88.

Debgupta, R. K.—163/Cal/88.

De'Orto S. P. A.—121/Mas/88.

Desai, M. P.—33/Bom/88.

Doshi, S. R.—24/Bom/88, 25/Bom/88.

Doshi, V. R.—24/Bom/88, 25/Bom/88.

Dow Chemical Company, The.—70/Mas/88.

Dtagerwerk Aktiengesellschaft.—104/Del/88.

Dresser Industries, Inc.—112/Del/88, 113/Del/88.

Duggal, S.—133/Del/88, 134/Del/88.

Dutta, A. P. (Shri).—95/Cal/88.

<i>Name & Appln. No.</i>
E
E. I. Du Pont De Nemours and Company.—82/Cal/88, 100/Cal/88, 111/Cal/88.
Eaton Corporation.—108/Cal/88, 109/Cal/88, 110/Cal/88, 145/Cal/88, 146/Cal/88.
Eduard Kusters Maschinenfabrik GmbH. & Co. KG.—74/Mas/88.
Emhart Industries, Inc.—154/Del/88.
Era Patents Limited.—96/Mas/88.
Eishov, O. S.—141/Cal/88.
F
F. L. Smidth & Co.—83/Mas/88, 122/Mas/88.
Fang, J.—118/Del/88.
Fei, P. T. H.—118/Del/88.
G
GNB Batteries, Inc.—94/Cal/88.
G. S. C. Sanford Pty. Ltd.—84/Mas/88.
Gandhi, B. R.—42/Bom/88.
Gardella Impianti Sistemi Industriali S. P. A.—106/Mas/88.
General Electric Co.—83/Cal/88.
General Instrument Corporation.—81/Mas/88.
Ghanekar, C. G.—26/Bom/88.
Gosudarstvenny Proektny I Nauchno-Issledovatel'sky Institut Nikelevo-Kobaltovoi Promyshlennosti (Gipronikel).—126/Cal/88.
Gujarat Plastic & Metal Containers Pvt. Ltd.—29/Bom/88.
Gullick Dobson Limited.—130/Mas/88.
H
HWP Group, Inc.—130/Del/88.
Hair Remover Ltd.—80/Mas/88.
Hamon-Sobeleo S. A.—71/Mas/88.
Henkel Kommanditgesellschaft auf Aktien.—69/Mas/88.
Hoechst Aktiengesellschaft.—86/Cal/88, 87/Cal/88, 115/Cal/88, 123/Cal/88, 137/Cal/88, 114/Cal/88.
Hoechst India Ltd.—46/Bom/88.
Hoerbiger Ventilwerke Aktiengesellschaft.—96/Cal/88.
Hydrnautics.—89/Cal/88.
I
Imperial Chemical Industries Plc.—92/Del/88.
Indian Space Research Organisation.—103/Mas/88.
Industrial Technology Research Institute.—119/Cal/88.
Injectall Limited.—118/Cal/88.
Intent Patents A. G.—168/Cal/88.
International Business Machines Corporation.—110/Del/88.
Irigoyen, M. E.—109/Mas/88.
J
Jain, S. A.—140/Del/88.
Johnson, D. E. I.—144/Cal/88.
Johnson, S. J.—144/Cal/88.
Jush, A. V.—43/Bom/88, 44/Bom/88.

<i>Name & Appln. No.</i>
K
Kabushiki Kaisha Nisshin Seisakusho.—116/Cal/88.
Kabushiki Kaisha Toshiba.—147/Del/88.
Kalina, A. I.—101/Mas/88.
Kaunassky Politekhichesky Institut Imeni Antanasa Snech-kusa.—102/Cal/88.
Kim, S. H.—150/Cal/88.
Koesis, F.—85/Mas/88.
Krone Aktiengesellschaft.—172/Cal/88.
Krunchak, V. G.—141/Cal/88.
Krupp Widia GMBH.—173/Cal/88.
Kyorin Seiyaku Kabushiki Kaisha.—73/Mas/88.
L
Lubavia-S. G. E.—122/Cal/88.
La Telemecanique Electrique.—106/Del/88.
Lindauer Dornier Gesellschaft m.b.h.—166/Cal/88.
Linde Aktiengesellschaft.—82/Mas/88.
Lubrizol Corporation, The.—98/Del/88.
Lucky, Ltd.—97/Cal/88.
M
Madison-Kipp Corporation.—92/Mas/88.
Mahajan, A. S.—91/Mas/88.
Maschinenfabrik Rieter AG.—88/Mas/88.
McCormick & Company.—120/Cal/88.
McNeilab Inc.—99/Cal/88.
Menzolit GMBH.—84/Cal/88, 85/Cal/88.
Metal Box Public Limited Company.—104/Mas/88.
Metallgesellschaft Aktiengesellschaft.—125/Cal/88.
Minnesota Mining and Manufacturing Co.—63/Mas/88.
Mitsubishi Jukogyo Kabushiki Kaisha.—98/Mas/88.
Mobil Oil Corporation.—12/Mas/88.
Mohanty, P. K.—131/Cal/88, 132/Cal/88.
Molinier S. A.—143/Cal/88.
Mukherjee, D.—124/Cal/88.
N
NGK Insulators, Ltd.—93/Cal/88, 174/Cal/88.
NL Industries Inc.—100/Del/88.
Nabisco Brand Inc.—103/Cal/88.
National Council for Cement & Building Materials.—142/Del/88, 143/Del/88, 144/Del/88.
National Research Development Corporation of India.—109/Del/88.
Nauchno-Proizvodstvenhoe Objedinenje Po Sozdariju I Vypusku Sredstv Avtomatizatsii Gornyx Mashin.—101/Cal/88.
Neste OY.—159/Cal/88.
Nippon Kokan Kabushiki Kaisha.—23/Bom/88.
Nippon Steel Corporation.—64/Mas/88.
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Nitro Nobal AB.—140/Cal/88.
Nordlys.—93/Del/88.

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O	S
Oxford Virology Limited.—93/Mas/88.	Southern Petrochemical Industries Corporation Limited.—126/Mas/88.
P	Sri Aurobindo Institute of Applied Scientific Research Trust.—76/Mas/88.
Pan, T. N.—138/Cal/88.	Stamcarbon, B. V.—66/Mas/88, 67/Mas/88, 115/Mas/88, 116/Mas/88.
Pandye, S.—108/Del/88.	Standard Oil Company, The.—122/Del/88.
Panickar, G. S. N.—94/Mas/88.	Sulzer Brothers Limited.—121/Del/88.
Parekh, B. M.—24/Bom/88, 25/Bom/88.	Svenska Rotor Maskiner AB.—141/Del/88.
Parekh, S. M.—24/Bom/88, 25/Bom/88.	T
Paul, P. J.—87/Mas/88.	Takeda Chemical Industries, Ltd.—65/Mas/88, 68/Mas/88, 108/Mas/88.
Peter-Btr Gummiwerke Aktiengesellschaft.—118/Mas/88.	Tamper Corp.—105/Del/88.
Pfizer Inc.—139/Del/88.	Tasgaonkar, G. S.—27/Bom/88.
Phillips Petroleum Company.—167/Cal/88.	Tata Energy Research Institute.—149/Del/88.
Pisarevsky, A. M.—141/Cal/88.	Thorat, P. B.—34/Bom/88.
Plessey Company Plc, The.—97/Mas/88.	Toiminimi Kone-Sampo.—162/Cal/88.
Poclain Hydraulics.—119/Del/88, 120/Del/88.	Toistikov, P. M.—141/Cal/88.
Podar, B. (Shri)—95/Cal/88.	Toyo Engineering Corporation.—135/Cal/88, 164/Cal/88.
Poludniowy Okreg Energetyczny.—126/Del/88.	Trade & Industry Private Limited.—175/Cal/88, 176/Cal/88.
Post Office, The.—78/Mas/88.	Trustees of Columbia University, The.—147/Cal/88.
Power-one, Inc.—137/Del/88.	Trutzschler GmbH & Co. Kg.—92/Cal/88.
Prav Electrosark Pvt. Limited.—40/Bom/88.	U
Process Scientific Innovations Ltd.—128/Cal/88.	UTDC Inc.—145/Del/88.
Promorail.—136/Del/88.	Union Carbide Corporation.—132/Del/88.
R	Unisystems Private Limited.—82/Del/88.
R. J. Reynolds Tobacco Company.—139/Cal/88.	V
Rachho Scientifiques.—107/Del/88.	Vaidyanathan, L.—127/Mas/88.
Ramchandra, J. N.—35/Bom/88, 36/Bom/88, 37/Bom/88.	Vaidyanathan, L. G. I.—127/Mas/88.
Rane, R.—111/Del/88.	Valadares, J. N.—45/Bom/88.
Ranghachary, K. A.—119/Mas/88, 120/Mas/88.	Veb Siliketwerk Brandis.—171/Cal/88.
Rieter Machine Works Limited.—125/Mas/88.	Vijayan, T. A. P.—75/Mas/88.
Ronald S. Ace.—158/Cal/88.	Vitebsky Tekhnologicheskyy Institut Legkoj Promyshlennosti.—98/Cal/88.
S	Vossloh-Werke GmbH.—90/Cal/88, 91/Cal/88.
SDS Biotech Kabushiki Kaisha.—107/Mas/88.	Vsesojuzny Nauchno-Issledovatel'skyy I Eksperimental'nyy Institut Po Pererabotke Khimicheskikh Volokon.—117/Cal/88.
SKF Industrial Trading and Development Company, B. V.—97/Del/88.	Vsesojuzny Nauchno-Issledovatel'skyy I Proektno-Tekhnologicheskyy Institut Ugol'nogo Mashino-Stroenia "Vnieptuglemash".—126/Cal/88.
Sabharwal, S. C.—129/Del/88.	W
Saha, S.—169/Cal/88.	W. R. Grace & Co.—103/Del/88.
Salzgitter Maschinenbau GmbH.—110/Mas/88.	Ward Blenkinsop & Company, Ltd.—125/Del/88.
Sanden Corporation.—90/Del/88, 91/Del/88, 96/Del/88.	Warner-Lambert Company.—94/Del/88, 95/Del/88.
Sane, S. T.—41/Bom/88.	Weld Mold Company.—148/Del/88.
Sanon, T.—152/Del/88.	Westinghouse Electric Corporation.—104/Cal/88, 105/Cal/88, 106/Cal/88, 133/Cal/88, 165/Cal/88.
Scape Group Plc.—115/Del/88.	White Consolidated Industries, Inc.—131/Del/88.
Scep, Inc.—117/Del/88.	Y
Sergeev, A. S.—141/Cal/88.	Yadav, R. R.—28/Bom/88, 39/Bom/88.
Shah, M. R.—31/Bom/88.	Z
Shults, J. M.—141/Cal/88.	Zaidenman, I. A.—141/Cal/88.
Siebe Gorman & Company Limited.—95/Mas/88.	Zellweger Uster AG.—89/Mas/88, 90/Mas/88.
Silk Engineering (Derby) Limited.—81/Del/88.	
Siemens Aktiengesellschaft.—153/Cal/88, 154/Cal/88.	
Singh, R.—101/Del/88.	
Singh, R. S.—127/Cal/88.	
Sinha, N. B. (Dr.).—88/Cal/88, 107/Cal/88.	
Smith Brother (Whitehaven) Limited.—113/Mas/88.	
Societe des Produits Nestle S. A.—112/Mas/88.	
Societe Francaise De Munitions.—114/Cal/88.	

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CLASS : 116-H.

162961

Int. Cl. : B 66 c 23/00; B 66 d 1/00.

A HYDRAULIC PEDESTAL MOUNT CRANE.

Applicant : FMC CORPORATION, AT 200 EAST RANDOLPH DRIVE, CHICAGO, ILLINOIS 60601, UNITED STATES OF AMERICA.

Inventors : 1. SHELDON FOSTER, 2. GERALD PAUL BERGER.

Application No. 460/Cal/84 filed June 29, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A hydraulic pedestal-mount crane having a boom pivoted on upper works, at least one lift hook suspended from the boom by a whip line wound on a winch, the upper works comprising :—

- a main frame including a turntable for attachment to a pedestal and defining a swing axis for crane;
- the boom pivoted to the forward end of the main frame;
- a winch frame mounted on the main frame to be laterally centered over the swing axis and carrying a number of hydraulically driven winches;
- a gantry mounted on and extending above the winch frame;
- an engine and associated pump longitudinally mounted on the main frame and under the winch frame; and
- a cab supported by the main frame and positioned to be on one side of and adjacent the boom and in front of said forward end of the main frame;

whereby the maximum swing clearance is traced by a front portion of the crane near the boom pivot and the tail swing is less than said maximum swing clearance.

Compl. Specn. 7 pages.

Drg. 1 sheet.

2-177GI/88

CLASS : 116-F.

162962

Int. Cl. B 66 c 23/00; B 66 d 1/00.

PEDESTAL MOUNT CRANE.

Applicant : FMC CORPORATION, AT 200 EAST RANDOLPH DRIVE, CHICAGO, ILLINOIS 60601, U. S. A.

Inventors : 1. GERALD PAUL BERGER, 2. FRANK SHELDON FOSTER, 3. LEROY LEE WITTMAN, 4. BERNARD JENSEN.

Application No. 461/Cal/84 filed June 29, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A pedestal mount crane having a boom pivoted on upper works, at least one lift hook suspended from the boom by a whip line wound on a winch, the upper works comprising :

- a base frame having a pair of fanges at the forward end thereof;
- a winch frame having a pair of forward legs each pinned to a respective one of the base frame forward flanges;
- a pair of vertical links each pinned between the rearward end of the base frame and the winch frame;
- a gantry having an angled pair of forward legs with a cross-member connecting the upper ends thereof and a pair of vertical legs;

each of the gantry angled legs pinned to a respective one of the winch frame forward legs; and each of the gantry vertical legs pinned adjacent the gantry cross-member and to the winch frame;

each of the gantry vertical legs being substantially aligned with a respective one of the winch frame vertical links and the gantry vertical legs being of a length such that each of the gantry angled legs is substantially aligned with a respective one of the winch frame forward legs.

Compl. Specn. 9 pages.

Drgs. 3 sheets.

CLASS : 116-H.

162963

Int. Cl. : B 66 c 23/00; B 66 d 1/00.

BREAK AWAY BAIL.

Applicant : FMC CORPORATION, AT 200 EAST RANDOLPH DRIVE, CHICAGO, ILLINOIS 60601, U. S. A.

Inventor : 1. GERALD PAUL BERGER.

Application No. 462/Cal/84 filed June 29, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

In a crane mounted on a platform rotatably mounted to a pedestal and having a boom supporting a hook, a gantry mounted to the platform and a breakaway bail connecting the gantry to the boom, the breakaway bail comprising :

- a multiple sheave pulley attached to an elongated tension plate means at one end;
- a bushing means attached to the other end of said plate means for pivotally attaching said tension plate means to said gantry;

reeving means for connecting the sheave to said boom;

said tension plate means having a section between said sheave and said bushing of reduced cross-sectional area so that under excessive load above a predetermined maximum tensile load transferred to said tension plate through said reeving means will cause said plate means to separate across said reduced cross-sectional area.

CLASS : 195-D.

162964

Int. Cl. : F 23 n 1/00.

APPARATUS FOR DISPENSING ACTIVE LIQUID MATERIALS.

Applicant : MOTAN GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, OF MAX-EYTH-WEG 42, 7972 ISNY, WEST GERMANY.

Inventor : 1. PAUL ROTH.

Application No. 696/Cal/84 filed September 28, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

An apparatus for dispensing active liquid material, said apparatus for portable spraying having an oscillating fire burner which operates with pulsating combustion and has an oscillating tube with a pulsating gas column operable in a resonance range at a predetermined pulsation pressure of said burner to which said active material is supplied via a discharge line from a tank for said active material, fuel being supplied to said burner from a fuel reservoir via a suction line;

the improvement therewith comprising a control device operatively connected to provide a further fuel connection between said fuel reservoir and said burner to feed additional fuel to the latter in response to heat extraction from the pulsating gas column causing a drop in the pulsation pressure of said burner and to compensate for the pressure drop so that desired optimum pressure conditions prevail at which the apparatus operates in the resonance range and so that a maximum efficiency of the apparatus and a uniform and continuous dispensing of the active material are ensured.

Compl. Specn. 14 pages.

Drgs. 3 sheets.

CLASS :

162965

Int. Cl. : H 01 1 31/06.

CONTACTING SYSTEM FOR THIN FILM SOLAR CELLS.

Applicant : NUKEM GMBH, OF RODENBACHER CHAUSSE, D-6450 HANAU (MAIN) 11, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. DR. GERT HEWIG, 2. DR. HANS HUSCHKA, 3. DR. BERND SCHURICH, 4. DR. JORG WORTNER.

Application No. 751/Cal/84 filed October 26 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A thin film solar cell with an upper semi-conductor layer adapted to face a source of light and a front contact deposited on said semi-conductor layer, wherein a passivation layer is deposited onto said front contact before said front contact is deposited onto said semi-conductor layer, the chemical potential of said passivation layer being matched to the chemical potential of the semi-conductor layer.

Compl. Specn. 9 pages.

Drg. 1 sheet.

CLASS : 68-E₂.

162966

Int. Cl. : H 01 1 9/00.

A SIGNAL TRANSMITTING DEVICE FOR TRANSMITTING AN OPTICAL SIGNAL.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, WEST GERMANY.

Inventor : 1. GERD THIELE.

Application No. 429/Cal/85 filed June 6, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A signal transmitting device for transmitting an optical signal indicating the state of a subject thyristor, comprising :

a pair of input terminals connectable across the subject thyristor;

a pair of output terminals connectable across a light emitting diode;

a rectifier connected to the input terminals;

an integrator connected to the rectifier; and

a threshold voltage switch for permitting current to reach the output terminals only when the voltage output of the integrator exceeds a first predetermined value.

Compl. Specn. 11 pages.

Drg. 1 sheet.

Class. 32-A₁ & 62-C₁.

162967

Int. Cl. C 09 b 33/00 & 35/00.

PROCESS FOR THE PREPARATION OF WATER-SOLUBLE DISAZO COMPOUNDS

Applicants : HOECHST AKTIENGESELLSCHAFT OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. ERNST HOYER, 2. RUDOLF PASS

Application No. 639/Cal/85 filed September 10, 1985.

Division of Application No. 532/Cal/83 dated 2nd May, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

21 Claims.

A process for the preparation of a water-soluble disazo compound of the formula (1) of the accompanying drawings.



1

In which :

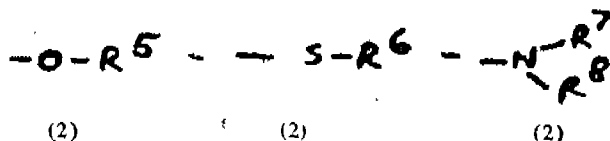
D_1 and D_2 are each a phenylene radical or a naphthylene radical which can each be substituted by one or two substituents selected from the group consisting of one chlorine atom, one bromine atom, two sulfo groups, two carboxy groups, two alkyl groups of 1 to 4 carbon atoms and two alkoxy groups of 1 to 4 carbon atoms, R' and R'' are each an amino group or a hydroxy group, R^+ and R^* are each a methyl group or a carboxy group or a carbalkoxy group of 2 to 5 carbon atoms such as the carbethoxy group or the carbomethoxy group,

R^1 and R^3 are each a hydrogen atom, an alkyl group of 1 to 4 carbon atoms, an alkoxy group of 1 to 4 carbon atoms, a chlorine atom or a bromine atom,

R^2 and R^4 are each a hydrogen atom, an alkyl group of 1 to 4 carbon atoms, an alkoxy group of 1 to 4 carbon atoms or a chlorine atom,

X is a vinyl group or a β -sulfatoethyl, a β -thiosulfatoethyl or a β -chloroethyl group,

Y is a chlorine, fluorine or bromine atom or a sulfo group or a group of the formula (2a), (2b) or (2c).



In which :

R^5 is a hydrogen atom, an optionally substituted aliphatic radical or an optionally substituted aryl radical, R^6 is an optionally substituted aliphatic radical or an optionally substituted aryl radical or an aromatic heterocyclic radical.

R^7 is a hydrogen atom, an optionally substituted aliphatic radical or an optionally substituted cycloaliphatic radical, R^8 is a hydrogen atom, an optionally substituted aliphatic radical or an optionally substituted aryl radical or R^7 and R^8 , together with the nitrogen atom, form a 5, 6 or 7 membered saturated heterocyclic ring which optionally contains one or two further hetero atoms, such as, for example, a nitrogen, oxygen or sulfur atom, where the moieties D_1 , D_2 , R^+ , R^* , R^1 , R^2 , R^3 , R^4 , X, XY, R^5 , R^6 , R^7 , R^8 , R' and R'' can be identical to or different from one another.

which comprises tetrazotizing a diamino compound of the formula (3) in which D_1 , D_2 and Y have the meanings mentioned above and reacting (coupling) the obtained tetrazotized product with a compound of the general formula (4a), and with a compound of the general formula (4b) in which R^+ , R^* , R' , R'' , R^1 , R^2 , R^3 , R^4 and the two Xs have the above mentioned meanings and can be identical to or different from one another, in equivalent amounts either in a mixture with each other or in succession.

Compl. Specn. 47 pages.

Drg. 24 sheets.

CLASS 93.

162968

Int. Cl. B 22 f 9/00;

C 04 b 5/02.

APPARATUS FOR GRANULATING METALLURGICAL MELT.

Applicant : GOUSUDARSTVENNY SOZJUNY INSTITUT PO PROEKTIROVANIU METALLURGI-CHESKIKH ZAVODOV "GIPROMEZ," OF PROSPEKT MIRA, 101, MOSCOW, USSR.

Inventors : 1. FELIX YANOVICH OLGINSKY,
2. MIKHAIL ALEXEEVICH SHARANOV.

Application No. 670/Cal/85 filed September 23, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

An apparatus for granulating metallurgical melt, comprising a granulator having a water supply means, a trough for supplying metallurgical melt to the granulator, a rotary driven drum having perforated peripheral walls and blades for moving granules on the peripheral wall thereof extending inwardly of the drum, a water tank disposed under the drum and having an overflow device, and a means for discharging granules from the drum, both the granulator and trough being disposed in the interior of the drum, and the lower part of the drum being disposed in the tank below the overflow device.

Compl. Specn. 14 pages.

Drg. 1 sheet.

CLASS : 95-H.

162969

Int. Cl. : B 21 c 3/14.

A DIE HEAD FOR A ROLL IMPRINTING MACHINE.

Applicant : ARTHUR ERNEST BISHOP, OF 19 BUF-FALO ROAD, GLADESVILLE, NEW SOUTH WALES, COMMONWEALTH OF AUSTRALIA.

Inventors : 1. KLAUS JUERGEN ROESKE, 2. AR-THUR ERNEST BISHOP.

Application No. 698/Cal/85 filed October 3, 1985.

Convention date 4th October, 1984 (PG7491) Australia.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A die head for a roll imprinting machine for the imprinting of edges of grooves preformed in a valve core for a rotary valve for use in a power steering gear, the die head having means supporting a circular cluster of radially disposed rolling die holders, each die holder carrying at an inner end an arcuate imprinting die and being mounted for partial rotation on a transversely extending axle, each axle being constructed in two parts each part having a frusto-conical inwardly tapering face in rotational sliding contact with a similar face on the die holder carried by the axle means being provided holding said parts in close contact, there being at the end of each axle a face and between each pair of axles positioning stop means secured to said die head abutting the face of each axle acting to restrain lateral movement of each axle thereby retaining said axles in a predetermined lateral positional relationship, means for effecting partial rotation of all said die holders synchronously, said means being arranged to act on each die holder at position on the die holder more remote from the inner end of the die holder than the axle, and valve core locating means arranged to locate and hold said valve core at the center of said cluster.

Compl. Specn. 16 pages.

Drgs. 7 sheets.

CLASS : 32-E

162970

Int. Cl. : C 08 f 1/00 & 3/00.

A SOLUTION POLYMERIZATION PROCESS FOR THE PREPARATION OF MOLECULAR WEIGHT POLYMERS OF ALPHAOLEFINS.

Applicant : DU PONT CANADA INC., OF BOX 2200 STREETSVILLE, MISSISSAUGA, ONTARIO CANADA L5M 2H3, CANADA.

Inventors : 1. ZBORIL, VACLAV GEORGE, 2. ZELONKA, RONALD ANDREW.

Application No. 931/Cal/85 filed December 26, 1985.

Convention date 28th January, 1985 (85.02067) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A solution polymerization process for the preparation of high molecular weight polymers of alphaolefins selected from the group consisting of homopolymers of ethylene and copolymers of ethylene and C₄—C₁₂ higher alpha-olefins, said process comprising feeding monomer selected from the group consisting of ethylene and mixtures of ethylene and at least one C₄—C₁₂ alpha-olefin, a coordination catalyst and inert hydrocarbon solvent to a reactor said catalyst being a titanium-based and/or vanadium-based coordination catalyst, polymerizing said monomer at a temperature of up to 320°C and a pressure of less than 25 MPa, deactivating the catalyst in the solution so obtained by sequentially admixing therewith a minor amount of a deactivating agent followed by a solution of a salt of an alkaline earth metal or zinc and aliphatic monocarboxylic acid dissolved in hydrocarbon solvent, said deactivating agent being selected from the group consisting of carbon dioxide, carbon monoxide and dimethyl carbonate separating the hydrocarbon solvent and other volatile matter from the resultant solution and recovering a composition comprising said high molecular weight polymer, the amount of the deactivating agent being not more than 2.5 moles of the deactivating agent per mole of halogen plus alkyl radicals in the coordination catalyst.

Compl. Specn. 22 pages.

Drgs. NIL

162971

Int. Cl. : F 04 C 2/02.

A SCROLL TYPE FLUID DISPLACEMENT APPARATUS.

Applicant : SANDEN CORPORATION, A JAPANESE COMPANY, OF 20 KOTOBUKI-CHO, ISESAKI-SHI, GUNMA-KEN, JAPAN.

Inventor : KAZUO SUGIMOTO.

Application No 892/Mas/84 filed November 19, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

4 Claims

A scroll type fluid displacement apparatus including a housing, a fixed scroll fixedly disposed within said housing and having a circular end plate from which a first wrap extends, an orbiting scroll having a circular end plate from which a second wrap extends, said first and second wraps interfitted at an angular and radial offset to form a plurality

of line contacts to define at least one pair of sealed off fluid pockets, a driving means operatively connected to said orbiting scroll to effect the orbital motion of said orbiting scroll and a rotation preventing/thrust bearing means for preventing the rotation of said orbiting scroll during orbital motion so thereby change the volume of the fluid pockets within the improvement comprising said rotation preventing/thrust bearing means having a fixed ring attached to an inner surface of said housing, an orbital ring attached to an outer end surface of circular end plate of said orbiting scroll and a plurality of balls, said fixed and orbital ring having a plurality of facing pockets in which said balls are to be disposed, and a retainer for rotatably holding said balls.

Compl. specn. 16 pages.

Drgs. 5 sheets

CLASS :

162972

Int. Cl. : F 02 B 29/00.

WATER-COOLED DIESEL ENGINE FOR OUTBOARD MOTOR.

Applicant : YANMAR DIESEL ENGINE CO., LTD., OF 1-32, CHAYAMACHI, KITA-KU, OSAKA-SHI, OSAKA-FU, JAPAN, A JAPANESE CORPORATION.

Inventors : (1) KOICHI AMEMORI, (2) TOSHIHIKO KAWABE.

Application No. 910/Mas/84 filed November 23, 1984.

Divisional to Patent No. 159521 (20/Mas-84) (Ante-dated to January 13, 1984).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims

A Water-cooled diesel engine for an outboard motor characterised in that the said engine is provided with a camshaft (31) for driving intake valves (24) and exhaust valves (23) of the engine, a unit injector (57) disposed at the vicinity of vertical center place (O₁—O₁ shown in Fig. 3) of the engine, a governor (88) disposed in a cylinder block (18) at the side of the unit injector (57), an oil strainer (100) at the side of the camshaft (31), an intake port (22) formed in the cylinder head (19) of the engine at the side of the unit injector (57), an intake pipe (101) connected with said intake port (22) to extend around the back of said governor (88) to the front of the crankcase (36) of the engine, an exhaust pipe formed integrally with the cylinder head (19) of the engine at the side opposite to said intake pipe (101), and a built-in exhaust manifold (30) which has its exit opened in the joint face with the body of said outboard motor (3).

Compl. specn. 26 pages.

Drgs. 5 sheets

CLASS :

162973

Int. Cl. : B 65 H 54/00.

A WINDING MACHINE FOR FORMING CYLINDRICAL PACKAGES.

Applicant : MACHINENFABRIK RIETER AG., A BODY CORPORATE ORGANISED UNDER THE LAWS OF SWITZERLAND, OF CH-8406, WINTERTHUR, SWITZERLAND.

Inventor : ADOLF FLUELI.

Application No. 978/Mas/84 filed December 12, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

9 Claims

Winding machine for forming cylindrical packages comprising a cylindrical roll which maintains contact with the cylindrical surface of a package during formation thereof and is rotatable about a longitudinal roll axis, at least one chuck and support means having said chuck mounted thereon in cantilever fashion for rotation about a longitudinal chuck axis wherein means defining a mode of relative movement of said support means and said roll axis, such that said chuck axis of the unloaded chuck is substantially parallel to said roll axis at only one relative position thereof within a range of movement enabling build of a package in use.

Compl. specn. 32 pages.

Drgs. 9 sheets

CLASS :

162974

Int. Cl.4 : B 22 F 9/06.

"A METHOD OF MAKING IRON POWDER".

Applicant : MANNESMANN AKTIENGESellschaft, OF MANNESMANUFER 2, D-4000 DUSSELDORF 1, FEDERAL REPUBLIC OF GERMANY, A WEST GERMAN COMPANY.

Inventors : 1. DIETER BERNHARDT, 2. NORBERT DAUTZENBERG, 3. RICHARD LUMMER, 4. GEORG HUBER.

Application for the Patent No. 980/Mas/84 filed on 13th December 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) the Patent Office Branch, Madras-600 002.

6 Claims

A method of making iron powder of high compressibility and low bulk density by means of atomizing a stream of molten steel, comprising the steps of : providing a conical jet of water from water kept at a pressure in excess of 80 bars at a rate in excess of 10 cubic meters water per metric ton of steel, the cone of the water jet being made to impinge upon the stream of molten steel at an angle between 40° and 60° wherein the stream of molten metal is made to pass through a tube providing air suction in a region upstream from the cone, adjacent to the stream of molten steel at a pressure of 0.02 to 0.20 bars below ambient; annealing the resultant powder in a reducing atmosphere at a temperature from 1,000° C to 1,200° C; and breaking a cake obtained after annealing to a powder form having a particle size distribution with a higher content of larger particles than the powder obtained immediately after the atomization.

Compl. specn. 12 pages.

Dr. 1 sheet

162975

Int. Cl.4 : F 16 G 1/10.

METHOD AND APPARATUS FOR MANUFACTURING A THERMOPLASTIC POWER TRANSMISSION BELT.

Applicant : J. H. FENNER & CO. LIMITED, A BRITISH COMPANY, OF MARFLEET, HULL, HU9 5RA, NORTH HUMBERSIDE, ENGLAND.

Inventors : (1) MICHAEL JOHN ROBERTS AND (2) PETER JAMES NICHOLAS HARVEY.

Application No. 1030/Mas/84 filed December 22, 1984.

Convention dated to 23rd December, 1983, No. 8334396, Great Britain.

Appropriate office for opposition proceedings (Rule 4, Rules, 1972) Patent Office, Madras Branch.

11 Claims

A method of manufacturing a thermoplastic power transmission belt having a reinforcing element in the form of a tape woven from synthetic filamentary fibre yarn, comprising continuously feeding a long length of said reinforcing tape through a heating zone and into a cross-head die of an extruder, extruding around said tape a thermoplastic body element of suitable cross-sectional shape, and passing the extrudate through a cooling zone and maintaining a constant tension in said tape throughout the heating and cooling sequences at least sufficient to resist heat shrinkage.

Apparatus for manufacturing a thermoplastic power transmission belt having a reinforcing element in the form of a tape woven from synthetic filamentary fibre yarn comprising a let-off spool holding the reinforcing tape, a haul-off mechanism for drawing the tape from the let-off spool, a pre-heating station for the tape, an extruding station to extrude a thermoplastic body element around said tape and a cooling station, and means for maintaining a constant tension in the tape during its passage through the pre-heating, extruding and cooling stations.

Compl. specn. 8 pages.

Dr. 1 sheet

162976

Int. Cl.4 : E 04 D 5/06.

A PROCESS FOR THE MANUFACTURE OF A REINFORCED ROOFING OR CLADDING SHEET.

Applicant & Inventor : ARIKESAVANALLUR VENKATARAMAN KRUSHNUN 60, BHEEMANNA MUDALI GARDEN STREET, MADRAS-600 018, TAMIL NADU, INDIA, INDIAN NATIONAL.

Application No. 31/Mas/85 filed on January 16, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

10 Claims

A process for the manufacture of a reinforced roofing or cladding sheet comprising the preparation of slurry from a solution of one or more resins such as herein described admixed with one or more fillers and additives such as aluminum trihydrate, calcium carbonate, calcium sulphate, silicates, soap stone powders, quartz, mica, feldspar, red mud, minerals, such as, micronised calcites, vermiculate fines, starches, such as, maize and wheat starch, expanded polystyrene, polyurethanes and catalysts, such as, tertiary butyl perbenzoate impregnating a woven or non-woven fabric made out of natural and/or synthetic fibres with the said slurry; sandwiching the impregnated fabric between two carrier or release films; and moulding the said impregnated fabric, thereafter, to the desired shape and size.

Compl. specn. 11 pages.

Dr. Nil

162977

Int. Cl.4 : C 03 B 37/012, H 01 P 3/00.

"A METHOD OF MANUFACTURING AN OPTICAL WAVEGUIDE PREFORM".

Applicant : CORNING GLASS WORKS, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA, OF CORNING, NEW YORK, 14830, UNITED STATES OF AMERICA.

Inventors : MICHAEL GREFT BLANKENSHIP, ARNAB SARKAR.

Application for Patent No. 113/Mas/85 filed on 12th February 1985.

Divided out of No. 353/Cal/82 (No. 156891) Ante-dated to 30th March 82.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) The Patent Office Branch, Madras-600 002.

2 Claims

A method of manufacturing an optical waveguide preform comprising the stage of providing a tube of cladding glass, disposing centrally within said tube a first glass rod having an axially disposed core region surrounded by a layer of cladding glass, disposing a first pair of glass rods diametrically with respect to the central rod within said tube, said first pair of rods being formed of a glass having a temperature coefficient of expansion different from that of said cladding glass and disposing a plurality of rods of cladding glass in some or all of the interstices between said centrally disposed rod, said first pair of rods and tube.

Compl. specn 41 pages.

Drgs. 4 sheets

162978

Int. Cl.⁴ : H 01 B 7/08.

AN IMPROVED FLAT CABLE AND A METHOD OF MANUFACTURING THE SAME.

Applicant & Inventor : DEEPCHAND JAICHAND, C/o FARCOM SYSTEMS MANUFACTURING, VENKATESH-PURAM ARABIC COLLEGE POST, BANGALORE-560 045, KARNATAKA, INDIA, INDIAN NATIONAL.

Application No. 528/Mas/85 filed July 12, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims

A method of manufacture of an improved flat cable comprising the steps of plating copper wires before twisting and bunching the same to form ropes; passing the ropes through extrusion dies to provide a PVC insulation thereon of the desired colour characterised by heating a thin sheet of plastic and forming the surface thereof into a ribbed profile; heating a plurality of the insulated conductors before applying a resin coating thereon; and bringing the said heated conductors disposed in closely spaced parallel relationship into contact with the heated sheet, such that the said conductors are respectively located between the ribs on the sheet, to bond therewith.

Compl. specn. 6 pages.

Drg. 1 sheet

162979

Int. Cl.⁴ : B 21 F 15/08.

"A COMPACT AND PORTABLE APPARATUS FOR WELDING METAL WIRES AND THE LIKE".

Applicant : INDIAN INSTITUTE OF TECHNOLOGY, I.I.T. P.O., MADRAS-600 036, TAMIL NADU, INDIA AN AUTONOMOUS BODY SET UP BY THE GOVERNMENT OF INDIA UNDER AN ACT OF PARLIAMENT.

Inventors : 1. PROF. Dr. RAMASWAMI VASUDEVAN, 2. GUNDURAJU SEETHAPATHY RAJU RAMACHANDRAN.

Application for the Patent No. 530/Mas/85 filed on 12th July 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) The Patent Office Branch, Madras-600 002.

6 Claims

A compact and portable apparatus for welding metal wires and the like comprising a housing accommodating an electrolytic tank containing a conductive electrolyte non-corrosive to metal and soluble in water; a cathode holder for suspending one or more cathodes in the electrolyte, wherein a cathode is constituted by at least two metal wires twisted at the tips, an anode holder for suspending an anode in the electrolyte, means for supplying d. c. power of variable voltage to the cathode or cathodes and to the anode, the said means being connectable to a source of electric power through a control switch, and a movably mounted hood provided with a limit switch connected to the said means, the hood being openable and closeable to expose and conceal the tank and holders and, simultaneously, to operate the limit switch for switching off and on the d. c. power.

Compl. specn. 10 pages.

Drg. 1 sheet

162980

Int. Cl.⁴ : B 24 D 7/18.

"AN IMPROVED GRINDING WHEEL FOR USE IN PLUNGE GRINDING".

Applicant : INDIAN INSTITUTE OF TECHNOLOGY, I.I.T. P. O. MADRAS-600 036, TAMIL NADU, INDIA, AN AUTONOMOUS BODY SET UP BY THE GOVERNMENT OF INDIA UNDER AN ACT OF PARLIAMENT.

Inventors : 1. PROF. VASUDEVAN PILLAI RADHA-KRISHNAN, 2. BETTADAPURA TIMMAPPAI ACHURTHA.

Application for the Patent No. 582/Mas/85 filed on 29th July 85.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) The Patent Office Branch, Madras-600 002.

2 Claims

An improved grinding wheel for use in plunge grinding, said wheel having a grinding face and an axial hole for receiving the drive shaft, characterised in that each side of the wheel is provided with a circular groove spaced from and concentric with the axial hole, and a plurality of equispaced spiral grooves being disposed substantially in radial directions with respect to the axis of the wheel, one end of each of said grooves communicating with the circular groove with the other end thereof terminating on the corresponding edge of the grinding face.

Compl. specn. 8 pages.

Drg. 1 sheet

162981

Int. Cl.⁴ : B 23 c 5/20; 5/22, B 23 F 21/12.

A MILLING CUTTER WITH INDEXABLE INSERTS.

Applicant : WIDIA (INDIA) LIMITED, 8/9th MILE, TUMKUR ROAD, BANGALORE-560 073, KARNATAKA, INDIA, A COMPANY DULY ORGANISED AND EXISTING UNDER THE LAWS OF THE UNION OF INDIA.

Inventors : (1) RANGARAJAN SRINIVASAN, 2. AMITAVA SHYAM CHOUDHURY, (3) DEVANATHAN SARATHY.

Application No. 695/Mas/84 filed September 13, 1984.

Complete specification left on 13th December, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims

A milling cutter with indexable inserts which are substantially rectangular in shape and disposed on the periphery of the cutter such that the thickness of an insert forms the rake face and one side thereof forms its height, the inserts on the flank face being staggered, to cover the full face of the form to be milled, each insert pocket being milled leaving an interference with corresponding threaded hole on the cutter body, to clamp each insert on the said body by an engaging countersunk screw.

Provisional specification 5 pages.

Drgs. 2 sheets

Compl. specn. 7 pages.

Drgs. 2 sheets

162982

Int. Cl. 4 : B 27 K 3/50.

"DIFFICULTLY FLAMMABLE WOODEN CHIP BOARDS AND A PROCESS FOR MAKING THE SAME".

Applicant : HOECHST AKTIENGESellschaft OF D 6230 FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY, A CORPORATION ORGANIZED UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY AND KARL DANZER FURNIERWERKE OF D 7410, REUTLINGEN, FEDERAL REPUBLIC OF GERMANY, A CORPORATION ORGANIZED UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. FRITZ REICHARD FUCHS, 2. HORST STAENDEKS.

Application for the Patents No. 774/Mas/84, filed on 16th October, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) The Patent Office Branch, Madras-600 002.

8 Claims

Difficultly flammable wooden chip boards comprising solid and pipe boards, prepared by extrusion from dry wooden chips and/or woody fibrous materials containing 5 to 50 weight % a flame-retarding agent based on the weight of said dry wooden chips and/or woody fibrous materials, said flame-retarding agent comprises 50 to 99.5 weight % of free-flowing pulverulent ammonium polyphosphate of the general formula



in which n stands for a whole number with an average value of 20 to 800 and the ratio of m/n is 1, individual particles of said ammonium polyphosphate being encapsulated in 0.5 to 50 weight % of a known cured water-insoluble synthetic resin such as herein described.

Compl. specn. 21 pages.

No Drg.

162983

Int. Cl. 4 : F 04 C 2/02, 18/02.

'SCROLL TYPE FLUID DISPLACEMENT APPARATUS WITH ANTI-WEAR SCROLL DEVICE.

Applicant : SANDEN CORPORATION, OF 20, KOTOBUKI-CHO, ISESAKI-SHI, GUNMA-KEN, JAPAN, A JAPANESE CORPORATION.

Inventor : SEIICHI SAKAMOTO.

Application No. 904/Mas/84 filed 22 November 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

3 Claims

A scroll type fluid displacement apparatus including a housing having a fluid inlet port and a fluid outlet port, a fixed scroll fixedly disposed within said housing and having a circular end, plate from which a first wrap extends an orbiting scroll having a circular end plate from which a second wrap extends, said first and second wraps interfitted angularly and radially offset from each other to make a plurality of line contacts to define at least one pair of sealed off fluid pockets, a driving mechanism operatively connected to said orbiting scroll to effect the orbital motion of said orbital scroll, and a rotation preventing means for preventing the rotating motion of said orbiting scroll during the orbital motion of said orbiting scroll to thereby change the volume of fluid pockets, characterized by an involute plate disposed on at least one of said end plates of said fixed and orbiting scrolls to cover the area which makes a contact with an axial end surface of opposing spiral wrap, and a depressed portion formed at the center portion of said at least one end plate on which said involute plate is disposed, said depressed portion and said involute plate defining an axial gap between inner surface of said involute plate and a facing surface of said end plate.

Compl. specn. 15 pages.

Drgs. 4 sheets

162984

Int. Cl. 4 : B 60 G 13/00.

A HYDROPNEUMATIC VEHICLE SUSPENSION ELEMENT AND, IN PARTICULAR, AN OLEOPNEUMATIC SUSPENSION ELEMENT FOR HEAVY VEHICLES, AND SUSPENSION FORMED BY SAID ELEMENTS.

Applicant : S. A. M. M.—SOCIETE D'APPLICATIONS DES MACHINES MOTRICES OF 224 QUAI DE STALINGRAD, 92130 ISSY LES MOULINEAUX, FRANCE, A FRENCH COMPANY.

Inventor : THIERRY BOUIGES, ALAIN ARNAUD.

Application No. 972/Mas/84 filed 10 December 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, Madras.

9 Claims

A hydropneumatic, and in particular an oleopneumatic vehicle suspension element for heavy vehicles, comprising a piston movable in a cylinder, a gas accumulator connected to the cylinder and containing gas and a liquid separated from the gas by a flexible diaphragm, a shock absorber cartridge placed in the liquid between the piston and the diaphragm, and means for cooling the liquid and correspondingly adjusting the ground clearance of the chassis of the vehicle, wherein said means for cooling the liquid comprise a caloduct comprising an end chamber provided in the shock absorber and forming a hot source which communicates with a first section of the conduit formed radially in the shock absorber and opening into the wall of the cylinder to communicate with a cold source formed by the chassis of the vehicle or by a free surface of the suspension element itself, the caloduct containing a gas which is capable of evaporating in contact with the cartridge, then travelling to the cold source where it is condensed, and then returning to the cartridge forming an evaporator and repeating the cycle, the cold source being located above the hot source constituted by the shock absorber cartridge.

Compl. specn. 23 pages.

Drgs. 5 sheets

162985

CLASS :

162987

Int. Cl.4 : C 07 C 29/00, 31/20.

IMPROVED METHOD FOR THE ELECTROSYNTHESIS OF ETHYLENE GLYCOL.

Applicant : NORMAN LOUIS WEINBERG, OF 95 GHASEWOOD LANE, EAST AMHERST, NEW YORK 14051, U. S. A., A U. S. CITIZEN AND SKA ASSOCIATES, OF 3929 BROADWAY, BUFFALO, NEW YORK 14227, U. S. A., A PARTNERSHIP FIRM OF WHICH THE PARTNERS ARE STEPHEN BOGDAN KORDUBA, OF 4981 WINDING LANE, CLARENCE, NEW YORK 14031, U. S. A., A U. S. CITIZEN AND DOROTHY ANTONETTE KORDURA, OF 4981 WINDING LANE, CLARENCE, NEW YORK 14031, U. S. A., a U. S. CITIZEN.

Inventor : NORMAN LOUIS WEINBERG.

Application No. 760/Mas/84 filed 9 October 1984.

Appropriate Office for opposition proceeding (Rule 4, Patents Rules 1972) Patent Office Branch, Madras-2.

16 Claims

A method of making ethylene glycol by the electrochemical reduction of a formaldehyde-containing electrolyte in an electrolytic cell equipped with a cathode formed from carbons and an anode, the improvement comprising conducting the reaction at a P ranging from 1 to 10 and including in said electrolyte a quaternary salt selected from ammonium, phosphonium, sulfonium salts and mixtures thereof, said salt being present in an amount sufficient to provide an ethylene glycol current efficiency of more than 50 percent.

Ethylene glycol is widely used as an automotive coolant and antifreeze. It is used in the production of polyester fibers, alkyl resins, paints, varnishes and strains.

Compl. specn. 35 pages.

Drg. 1 sheet

162986

Int. Cl.4 : C 01 G 45/02.

AN IMPROVED METHOD OF PREPARING ELECTROLYTIC MANGANESE DIOXIDE.

Applicant : KERR-MCGEE CHEMICAL CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, LOCATED AT KER-MCGEE CENTER, OKLAHOMA CITY, OKLAHOMA 73125, U. S. A.

Inventor : OLEN L. RIGGS, JR.

Application No. 854/Mas/84 filed 9 Nov. 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, Madras-2.

3 Claims

In a method for preparing manganese dioxide by electrolysis of an aqueous solution containing sulphuric acid and manganese sulfate, the improvement which comprises in using as a cathode, copper containing at least 99.95 weight percent of copper, from 0.001 to 0.047 weight percent of silver and 0.003 weight percent of phosphorus, the weight ratio of phosphorus to silver in said copper being no more than 2.0 to 1.0, said cathode having a reduced tendency to corrode and undergo build-up of current inhibiting scale

Compl. specn. 12 pages.

Drg. Nil

Int. Cl.4 : C 07 c 126/02.

AN IMPROVED PROCESS FOR PREPARING UREA.

Applicant : UNIE VAN KUNSTMESTFABRIEKEN B. V. OF NALIEBAAN 81, UTRECHT, THE NETHERLANDS. NETHERLANDS COMPANY.

Inventor : KEES JONCKERS.

Application No. 867/Mas/84 filed 14 November 1984.

Appropriate Office for opposition proceeding (Rule 4, Patents Rules 1972) Patent Office Branch, Madras-2.

2 Claims

1. An improved process for preparing urea in which,

- in a synthesis zone, at a pressure of 125--350 bar and at a temperature of 170 to 250° C, a urea synthesis solution containing carbamate and free ammonia is formed from carbon dioxide and an excess of ammonia,
- in a first decomposition step, at a pressure which is at most equal to the synthesis pressure, a part of the carbamate is decomposed by supply of heat and the gas phase obtained in this process is condensed in a first condensation zone,
- in a second decomposition step, at a pressure of 4--40 bar, a further part of the carbamate still present is decomposed by supply of heat and the gas phase formed is separated off,
- in a further step, the remaining carbamate is removed in the form of a gas mixture containing ammonia and carbon dioxide, and this gas mixture is processed to form a solution of ammonia and carbon dioxide in water,
- and the remaining urea-containing solution is processed to form a concentrated urea solution, characterized in that,
- the urea solution to be concentrated is introduced into the tubes of a shell and tube heat exchanger,
- the gas mixture from the second decomposition step which has a dew point of between 110 and 160° C is led into the shell side of the heat exchanger at the end opposite the place where the urea solution to be concentrated is fed,
- the solution of ammonia and carbon dioxide in water is fed to the said shell side at a place located between the inlet for the gas mixture and the inlet for the urea solution to be concentrated at a place where the temperature in the shell side substantially corresponds to the temperature at which, in a Q-t diagram, the condensation line of the gas mixture in the absence of the dilute carbamate solution and the condensation line of the gas mixture in the presence of the dilute carbamate solution intersect, Q being the amount of heat transferred from the shell side to the tube side and to being the temperature in the shell side, and
- a liquid mixture obtained by condensation of the gas mixture from the second decomposition step and the solution of ammonia and carbon dioxide in water is discharged from the shell side at the end where the urea solution is led into the tubes.

Urea is used as a fertiliser.

Compl. Specn. 16 pages.

Drg. 1 sheet.

CLASS : 162988

Int. Cl.⁴ : F 01 C-1/02, 19/02, 21/02.**SCROLL TYPE FLUID DISPLACEMENT APPARATUS WITH IMPROVED DRIVE SHAFT SUPPORTING MECHANISM.**

Applicant : SANDEN CORPORATION, OF 20, KOTO-BUKI-CHO ISESAKI-SHI, GUNMA-KEN, JAPAN A JAPANESE COMPANY.

Inventor : SEIICHI SAKAMOTO.

Application No. 903/Mas/84 filed 22 November 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, Madras-2.

4 Claims

A scroll type fluid displacement apparatus with improved drive shaft supporting mechanism comprising a compressor housing having a front end plate, a drive shaft extending through and rotatably supported in said front end plate, a shaft seal assembly mounted on said drive shaft, a fixed scroll fixedly disposed within said compressor housing and having a circular end plate and a first wrap formed thereon, and orbiting scroll having a circular end plate and a second wrap mounted thereon, said first and second wrap interfitting at an angular and radial offset to make a plurality of line contacts to define at least one pair of sealed off fluid pockets, a driving mechanism including said drive shaft operatively connected to said orbiting scroll so as to effect of the orbital motion of said orbiting scroll, and a rotation preventing means for preventing said orbiting scroll, from rotation, said fluid pockets changing their volume by the orbital motion of said orbiting scroll, in which said front end plate comprises a front end plate portion having a central opening and an annular sleeve portion frontwardly projecting from said front end plate portion, said sleeve having a bore as a shaft seal cavity connected with said central opening, said drive shaft extending through said bore and said central opening and being supported by a single bearing mounted in said central opening, said shaft seal assembly being mounted on said drive shaft within said bore.

Compl. specn. 13 pages.

Drgs. 2 sheets

CLASS : 162989

Int. Cl.⁴ : C 07 C 17/02.**IMPROVED PROCESS FOR MAKING 1, 2 DICHLOROETHANE.**

Applicant : HOECHST AKTIENGESELLSCHAFT, OF D 6230 FRANKFURT/MAIN 80 FEDERAL REPUBLIC OF GERMANY, CHEMICAL MANUFACTURERS, A CORPORATION ORGANIZED UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY

Inventors : 1. JOACHIM HUNDECK, 2. WENZEL KUHN, 3. HARALD SCHOLZ, 4. IWO SCHAFFELHOFER.

Application No. 919/Mas/84 filed on November 26, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) The Patent Office, Madras Branch.

6 Claims

Process for making 1, 2-dichloroethane by reacting ethylene with chlorine in a solvent in a reaction zone at a temperature lower than the boiling point of 1, 2-dichloroethane and between 20—100 C under a pressure of 1—15 bars in the presence of a catalyst mixture consisting of anhydrous iron (II) chloride and a nitrogen base selected from the group consisting of ammonia, primary, secondary or tertiary

L. 177 GI/88

alkyl, aralkyl, aryl, or alicyclic amine or polyamine or a salt of said base and, optionally, oxygen or air as an inhibitor reducing the formation of by-products, and distillatively separating the 1, 2-dichloroet and from the chlorination mixture containing the catalyst, which comprises : conveying said chlorination mixture from the reaction zone into a distilling column, distilling off the 1, 2-dichloroethane until said catalyst commences separating, and recycling such a portion of the liquid product retained in the bottom portion of the distilling column into the reaction zone for further reaction of ethylene with chlorine, that the concentration of the iron (III) chloride in the reaction batch is 0.001—0.5 wt % based on the quantity of solvent.

The product according to the invention is used for preparing Vinyl chloride.

Compl. specn. 10 pages.

Drg. 1 sheet

CLASS : 162990

Int. Cl.⁴ : A 01 N 31/02.**A PROCESS FOR PREPARING A COMPOSITION FOR REGULATING THE GROWTH OF PLANTS.**

Applicant : UNION OIL COMPANY OF CALIFORNIA, OF CORPORATION OF THE STATE OF CALIFORNIA, OF 361 SOUTH BOYLSTON STREET, LOS ANGELES, CALIFORNIA 90017, UNITED STATES OF AMERICA.

Inventor : DONALD C. YOUNG.

Application No. 302/Mas/86 filed April 21, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, Madras-2.

8 Claims

A process for preparing a composition for regulating the growth of plants which comprises adding lactic acid, of which at least 60% is dextrorotatory L-(d)-isomer of lactic acid present in a molar concentration of 10^{-10} to 10^{-2} to an acid other than lactic acid wherein the acid and a pH buffer which do not react with the lactic acid wherein the acid other than lactic acid is present in an amount to maintain the composition pH of not more than 5.

The composition under invention will be of very use in the field agriculture for regulating for stimulation as well as inhibiting the plant growth.

Compl. specn. 34 pages.

Drg. 1 sheet

CLASS : 194 C₈, 206 F & 70 C₈ 162991

Int. Cl. : H 01 L 15/02 & C 23 b 5/00.

AN IMPROVED METHOD OF ELECTRO-COATING A PRE-SELECTED PATTERN ON A SURFACE OF A SEMI-CONDUCTOR DEVICE.

Applicant : ENERGY CONVERSION DEVICES, INC., A DELAWARE CORPORATION HAVING A PLACE OF BUSINESS AT 1675 WEST MAPLE ROAD, TROY, MICHIGAN 48064, UNITED STATES OF AMERICA.

Inventors : PREM NATH, TIMOTHY JOHN BARNARD & DOMINIC CREA.

Application for Patent No. 208/Del/85 filed on March 13, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

15 Claims

An improved method of electro-coating a pre-selected pattern on a surface of a semiconductor device, said semiconductor device having opposed first and second surfaces and a photo-responsive junction disposed between said first and second surfaces, said method comprising the steps of :

- disposing said semiconductor device in an electrode;
- illuminating said device to activate said photo-responsive junction;
- applying electrical current from an external source to said semiconductor device through said electrode and the second surface of said device; and
- permitting said illumination to fall continuously or discontinuously in a manner such as herein described on to said semiconductor device in order to form thereon said pre-selected electro-coated pattern.

Compl. specn. 18 pages.

Drgs. 4 sheets

CLASS : 194 C₈ & 206 E & H₁.

162992

Int. Cl. : H 01 I 15/02.

"PROCESS FOR THE MANUFACTURE OF A SEMI-CONDUCTOR DEVICE HAVING THIN FILM SEMI-CONDUCTOR ALLOY MATERIAL ON A SUBSTRATE".

Applicant : ENERGY CONVERSION DEVICES, INC., A DELAWARE CORPORATION HAVING A PLACE OF BUSINESS AT 1675 WEST MAPLE ROAD, TROY, MICHIGAN 48084, UNITED STATES OF AMERICA.

Inventors : STANFORD ROBERT OVSHINSKY, DAVID DEAN ALLRED, LEE WALTER & STEPHEN JENKINS HUDGENS.

Application for patent No. 256/Del/1985 filed on 26th March, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

12 Claims

A process for the manufacture of a semiconductor device having thin film semiconductor alloy material on a substrate of the kind described herein from a glow discharge excited by microwave energy, said process comprising coupling microwave energy into a substantially enclosed reaction zone containing said substrate and introducing into said zone at least one reaction gas of the kind described herein to establish a glow discharge plasma within said reaction zone containing reaction gas species derived from said reaction gas, characterized in that said reaction zone is maintained at pressure of between .001 to 13 pascal during deposition of said amorphous semiconductor alloy material onto said substrate.

Compl. specn. 23 pages.

Drgs. 5 sheets

CLASS :

162993

Int. Cl. : F 22 B, 37/22, 37/58.

AN IMPROVED METHOD OF REPLACING A DAMAGED OLD TUBE AND HEADER-MEMBER OF A HEADER OR DRUM.

Applicant : THE BARCOCK & WILCOX COMPANY, OF 1010 COMMON STREET, P. O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, U. S. A.

Inventor : RALPH ERNEST SPADA, AND THOMAS SHILOTT.

Application for Patent No. 263/Del/85 filed on 27 March 1985.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, New Delhi 110 005.

7 Claims

An improved method of replacing a damaged old tube and header-member of a header or drum without entirely replacing the damaged old tube by a new tube, said old tube penetrating beyond the wall thickness of said header-member the method comprising :

- (a) severing the old tube to form a cut end proximate the header-member;
- (b) machining the cut end of the old tube to form a recess and recessed tube end within the wall thickness of the header-member;
- (c) welding the recessed old tube end within the wall thickness to the header-member;
- (d) inserting an end of a new tube into the recess within the header-member proximate the recessed old tube end; and
- (e) welding the new tube to the header-member by forming a weld bead that is approximately conically shaped to increase the surface area of the new tube that is welded to the header-member.

Compl. specn. 8 pages.

Drg. 1 sheet

CLASS :

162994

METHOD OF SELECTIVELY REMOVING PORTIONS OF A CORROSION RESISTANT MATERIAL SUBSTRATE TO FORM AN APERTURED MEMBER FOR USE IN FLUID JET PRINTING AND PHOTO-ETCHING PROCESSES.

Applicant : BURLINGTON INDUSTRIES, INC., A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, U. S. A., OF 3330 WEST FRIENDLY AVENUE, GREENSBORO, NORTH CAROLINA 27110, UNITED STATES OF AMERICA.

Inventor : RODGER LOTIS GAMBLIN.

Application for Patent No. 265/Del/85 filed on 28 March, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

16 Claims

A method for selectively removing portions of a corrosion resistant material substrate to form an apertured member for use in fluid jet printing and photo-etching processes, said method comprising :

depositing, by electro-deposition a layer of an amorphous phosphorus-containing metal alloy on at least one surface of a corrosion resistant substrate in a predetermined pattern defining a predetermined array of opening therein, and

selectively chemically etching away at least a portion of said substrate by applying an etchant thereto which selectively etches away said substrate in the vicinity of said openings at a substantially greater rate than said alloy layer.

Compl. specn. 22 pages.

Drgs. 2 sheets

CLASS : 162995
Int. Cl.⁴ : B 60 C 9/00.

IMPROVED TYRE HAVING A BODY OF CASTABLE OR SPRAYABLE ELASTOMERS.

Applicant : LIM KUNSTSTOFF TECHNOLOGIE GES. m. b. H.

Inventor : OSKAR SCHMIDT.

Application for Patent No. 283/Del/85 filed on 04 April, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

8 Claims

An improved tyre having a body of castable or sprayable elastomers, said tyre body incorporating a pair of bead rings and a belt co-extensive with the running surface of the tyre and, optionally, a radial reinforcement provided between said belt and the inner surface of said tyre body, extending between and said reinforcement being anchored to said bead rings, characterised in that spacer means in the form of a net flexible in all directions is provided within said tyre body between the inner surface thereof and said reinforcement or said belt in order to maintain said belt or said belt and reinforcement within said body and away from said inner surface, said spacer means extending co-extensively with said inner surface but terminating away from said bead rings.

Compl. specn. 8 pages.

Drgs. 2 sheets

CLASS : 50 E₁. 162996
Int. Cl. : F25b 15/00.

"CHEMISORPTION APPARATUS".

Applicant : MELCHOR DURAN, A SPANISH CITIZEN OF 39 JENKINS AVENUE, BABYLON, NEW YORK 11703, U. S. A.

Inventor : MELCHOR DURAN.

Application for Patent No. 287/Del/85 filed on 6th April, 1985.

Convention date 6th April, 1984/451496/(Canada).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

12 Claims

A chemisorption apparatus for heating or cooling comprising :

- (a) a cylindrical housing having temperature zones therein and inlets and outlets to each said temperature zone;
- (b) an array of thermal elements, such as described herein, rotatable about a longitudinal axis of said cylindrical housing so as to move said thermal elements through said temperature zones, each said thermal element having enclosed therein a sealed, self-contained volume, wherein a first portion of said volume has means for holding an absorbent material as herein described therein and a second portion of said volume has means for receiving a reactant material as herein described disassociated from said absorbent material said absorbent and reactant materials combining together or disassociating depending on the temperatures applied to said portions of said thermal

elements as they move through said temperature zones;

- (c) a partition for dividing said housing into a first temperature zone through which first temperature zone absorbent containing first portions of said thermal elements are moved and a second temperature zone through which the reactant containing second portions of said thermal elements are moved;
- (d) means dividing each of said first and second temperature zones into two temperature subzones, wherein the subzones of one of said temperature zones comprise a high temperature subzone and an intermediate temperature subzone, and the subzones of the other of said temperature zones comprise another intermediate temperature subzone and a low temperature subzone; and
- (e) means for rotating said array of thermal elements in a continuous cycle through said temperature zones.

Compl. Specn. 18 pages.

Drgs. 2 sheets.

CLASS : 162997
Int. Cl.⁴ : F02K 9/38.

THERMALLY ACTUATED SAFETY DEVICE FOR A PRESSURE VESSEL OR PRESSURIZED GAS GENERATOR SUCH AS A ROCKET MOTOR CASE.

Applicant : HUGHES AIRCRAFT COMPANY, A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 7200 HUGHES TERRACE, P. O. BOX 45066, LOS ANGELES, CALIFORNIA 90045-0066 FORMERLY HAVING A PRINCIPAL PLACE OF BUSINESS AT 200 NORTH SEPULVEDA BOULEVARD, EL SEGUNDO, CALIFORNIA 90245, UNITED STATES OF AMERICA.

Inventor : CYRIL FRANCIS DOLAN.

Application for Patent No. 292/Del/85 filed on 8th April, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

10 Claims

A thermally actuated safety device for a pressure vessel or pressurized gas generator such as a rocket motor case, comprising :

- a temperature sensor for sensing when temperature adjacent to the pressure vessel exceeds a predetermined temperature for a sufficient time which indicates the presence of fire adjacent the vessel and for providing a signal indicative thereof;
- a vessel case cutter positioned adjacent the case to cut the case when actuated; and
- a control module for receiving said signal and controlling the transmission of said signal to actuate said cutter according to the position of an acceleration sensing means located within said control module, said control module transmitting said signal to actuate said case cutter when said acceleration sensing means is in a first position, and preventing transmission of said signal to said case cutter when said acceleration sensing means is in a second position.

Compl. Specn. 16 pages.

Drgs. 2 sheets.

CLASS : 162998

Int. Cl.⁴ : F25D 13/00.**AN IMPROVED REFRIGERATION DEVICE FOR COLD STORAGE.**

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : PIARA SINGH PART I AND SARATH BABU NALAM.

Application for Patent No. 467/Del/85 filed on 11th June, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

An improved refrigeration device for cold storage consisting of a main evaporator, a compressor, a condenser, a receiver and an expansion valve, characterised in that the device contains an ice reserve unit (IRU) consisting of an evaporator coil and an agitator submerged in an eutectic solution having a suitable freezing point, contained in an insulated tank, situated at a level higher than that of the main evaporator and connected to the main evaporator in parallel and provided with a vapour jet type booster (B) connected in between the ice reserve unit and the compressor for raising the pressure of the vapour from ice reserve unit to the pressure of the main evaporator.

Compl. Specn. 6 pages.

Drg. 3 sheets.

CLASS : 162999

Int. Cl.⁴ : B02C 4/02.**A CRUSHING APPARATUS.**

Applicant : T. J. GUNDLACH MACHINE COMPANY, AN ILLINOIS CORPORATION, LOCATED AT NO. 1 FREEDOM DRIVE, BELLEVILLE, ILLINOIS 62222, U. S. A.

Inventor : DONALD WILSON BROWN JR. AND MARK LEWIS KOHLER.

Application for Patent No. 528/Del/85 filed on 4th July, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

13 Claims

A crushing apparatus having first and second rotatable crushing rolls disposed with their axial lengths parallel, first frame means for releasably supporting and holding the first crushing roll; second frame means movable in a direction away from the first frame means for supporting the second crushing roll at a crushing position adjacent the first roll and the first frame means and moving the second crushing roll from said crushing position to a position spaced from the first frame means for greater accessibility to said rolls; roll removal means mounted on the second frame means for supporting the first crushing roll upon release of said first crushing roll from the first frame means and carrying the first crushing roll to a position spaced from the first frame means as said roll to removal means moves with the second frame means; said roll removal means comprising a pair of arm means, one of the arm means being engageable with the first roll and the other of the arm means being engageable with the

first roll at a position spaced from said one arm means along the axial length of the first roll; each of said arm means being extendable into supporting engagement with the first crushing roll.

Compl. Specn. 16 pages.

Drgs. 3 sheets.

CLASS : 163000

Int. Cl.⁴ : B60 T 15/00.**THREE WAY CHECK VALVE FOR A FLUID PRESSURE BRAKING SYSTEM.**

Applicant : ALLIED CORPORATION, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK OF COLUMBIA ROAD AND PARK AVENUE, MORRIS TOWNSHIP MORRIS COUNTRY, NEW JERSEY, UNITED STATES OF AMERICA.

Inventor : ROY EDWIN BARTHOLOMEW.

Application for Patent No. 645/Del/85 filed on 7th August, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

7 Claims

Three way check valve for a fluid pressure braking system comprising a housing (34) having first, second and third inlet ports (38, 40, 42) and an outlet port (60), said housing (34) includes a bore (36) therewithin, characterised in that a pair of pressure differential responsive shuttle members (44, 46) are slidably mounted in said bore each of said shuttle members (44, 46) co-operating with a corresponding ends of the bore (36) and with each other to define first, second and third chamber (52, 55, 58), each of pair first, second and third chambers (52, 55, 58) being connected with corresponding one of said first, second and third inlet ports (38, 40, 42) said shuttle members (44, 46) co-operating with one another to define said third chamber (52) between the shuttle members, and passage means (62) connecting each of said chambers (52, 55, 58) with the outlet port (60), said shuttle members (44, 46) being movable in said bore in response to pressure changes at said inlet ports (38, 40, 42) to connect to said outlet port (60) the chamber connected with the one of said inlet ports (38, 40, 42) having the highest pressure level, said shuttle members (44, 46) disconnecting the outlet port (60) from the chambers (52, 55, 58) connected with the other inlet ports (38, 40, 42).

Compl. Specn. 8 pages.

Drg. 1 sheet.

CLASS : 163001

Int. Cl.⁴ : G 09 B 11/04.**A TEACHING APPARATUS FOR PROVIDING TRAINING IN COPYING GRAPHIC MATTER.**

Applicant : EAST WEST EDUCATIONAL PUBLISHERS PRIVATE LIMITED, D. NO. 12-11-277, WARISGUDA, SECUNDRABAD-500 361, ANDHRA PRADESH, INDIA, A COMPANY DULY ORGANISED AND EXISTING UNDER THE LWS OF THE UNION OF INDIA.

Inventor : YELAKANTI MOHAN RAO.

Application No. 591/Mas/84 filed August 9, 1984.

Complete specification left on 9th August, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

3 Claims

A teaching apparatus for providing training in copying graphic matter comprising a panel whose surface has grooves thereon of graphic configuration wherein at least the surface of the grooves is coated with a driable composition comprising a mix of the following substances : (i) toluene and/or xylene (ii) thermocole and/or polystyrene (iii) carbon black and/or colouring pigments and/or dyes (iv) plaster of paris and/or kaolin and (v) fine abrasives.

Provl. Specn. 5 pages.

Drg. 1 sheet.

Compl. Specn. 8 pages.

Drg. Nil.

CLASS :

163002

Int. Cl.⁴ : H 03 K 19/08.

LOGIC CIRCUIT WITH THRESHOLD AND BUILT-IN SAFETY.

Applicant : JEUMONT-SCHNEIDER, OF 31-32, QUAI DE DION BOUTON 92811 PUTEAUX CEDEX, FRANCE A FRENCH COMPANY.

Inventor : JACQUES GUILLAUMIN.

Application No. : 768/Mas/84 filed on October 12, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

12 Claims

Logic circuit with threshold and built-in safety such that any modification of the characteristics of one of its components produces a relative increase of the threshold value and comprising a comparator (7) one input of which receives a reference d-c voltage (VR) whereas the other input is connected to the junction point of a first and a second resistance (1, 2), a first d-c voltage (V1) of low relative value being applied to the other end of the first resistance (1), and a second d-c voltage (V2) of high relative value being applied to the other end of the said second resistance (2) by means of a third resistance (3), at the junction point (A) of the said second and third resistances (2, 3) a third d-c voltage of intermediate relative value is applied by means of a fourth resistance (4) in series with a chopping commutator (6).

Compl. Specn. 19 pages.

Drgs. 3 sheets.

CLASS :

163003

Int. Cl.⁴ : E 21 D 23/00.

"MINE ROOF SUPPORT HAVING ATTACHMENT MEANS".

Applicant : DOBSON PARK INDUSTRIES PLC., A BRITISH COMPANY OF DOBSON PARK HOUSE, COLWICK INDUSTRIAL ESTATE, NOTTINGHAM, ENGLAND.

Inventor : 1. ARCHELAUS DAWSON ALLEN.

Application for Patent No. 789/Mas/84 filed on 20th October, 1984.

Convention date on 22nd October 1983/No. 8328281/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-600 002.

6 Claims

A mine roof support having attachment means comprising a base unit, a mine roof engaging canopy, and support means separating the base unit and canopy thus providing a miners walkway between the base unit and the canopy, the attachment means comprising a ram arrangement in the form of at least two rams operable to effect relative movement between the mine roof support and the abutment, means for extending and retracting the rams in unison, and a protective structure, the rams being positioned side by side under the protective structure such that in use the protective structure provides a platform in the walkway and miners can walk or crawl over, or sit on, the protective structure.

Compl. Specn. 12 pages.

Drgs. 4 sheets.

CLASS :

163004

Int. Cl.⁴ : B 68 G 7/00;

B 32 B 31/00.

"A PROCESS FOR FORMING CLOTH COVERED CUSHION ARTICLES".

Applicant : SEARS MANUFACTURING COMPANY, OF 1718 SOUTH CONCORD, DAVENPORT, IOWA, 52808, U. S. A., A CORPORATION OF THE STATE OF IOWA, U. S. A.

Inventors : 1. WEIR SEARS JR. 2. JOHN E. HOSTETLER, 3. WILLIAM H. HULSEBUSCH.

Application for the Patent No. 798/Mas/84 filed on 25th October, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-600 002.

8 Claims

A process for forming cloth covered cushion articles comprising the steps of :

drawing a cloth covering into a mold having the shape of the desired cushion article, said cloth having at least a layer of known heat fixable fibers;

pouring a foamable material into said mold foaming and curing the foam by known methods at a temperature below the heat fixable fiber set temperature of the cloth covering to form the cushion article;

removing the cushion article from said mold and heating the cushion article to at least the heat fixable fiber set temperature of the cloth covering.

Compl. Specn. 13 pages.

Drg. 1 sheet.

CLASS :

163005

Int. Cl.⁴ : C 23 C 4/00.

"A METHOD OF MAKING A METAL MATRIX COMPOSITE MONOTAPE".

Applicant : NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, OF WASHINGTON, D. C. 20546, UNITED STATES OF AMERICA A US COMPANY.

Inventor : LEONARD HAMES WESTFALL.

Application for the Patent No. 805/Mas/84 filed on 27th October, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-600 002.

7 Claims

A method of making a metal matrix composite monolayer wherein an array of fibers is mounted on a support in a chamber said chamber is evacuated to remove gaseous contaminants therefrom, said chamber is filled with a neutral gas, inserting a pair of wires of a metal into feedthrough openings in a wall of said chamber through purge tubes connected to said feedthrough openings, feeding said wires into said chamber until the extreme outermost ends thereof are in close proximity to said array, and striking an arc between said outermost end portions of said wires thereby causing the same to melt, and the melted metal is sprayed onto said array of fibers by passing a high velocity stream of said neutral gas through said arc.

Compl. Specn. 14 pages.

Drgs. 2 sheets.

CLASS : 163006

Int. Cl.⁴ : E 06 B 9/209.

AN IMPROVED AUTOMATIC LOCKING SYSTEM FOR ROLLING SHUTTERS.

Applicant & Inventor : K. T. THOMAS OF KIZHAKKE-NATH, PUNCHAVAYAL P. O. MUNDAKKAYAM, KOT-TAYAM DISTRICT, KERALA STATE, PIN-686 513, INDIA, AN INDIAN CITIZEN.

Application No. 818/Mas/84 filed on 30 October, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-600 002.

4 Claims

An improved automatic locking system for rolling shutters comprising a locking mechanism which is fixed at the bottom of rolling shutter, a foundation clamp fixed on the floor in line with the said locking mechanism wherein the said locking mechanism comprises a piston (2) operatively connected to a clutch (4), said clutch (4) is connected to a system of levers, which in turn is operatively connected to lock levers (3), means are provided on said piston (2) to operate arms (10, 11) for releasing stand lever (5) to lock the rolling shutter with the foundation clamp.

Compl. Specn. 5 pages.

Drg. 1 sheet.

CLASS : 163007

Int. Cl.⁴ : H 02 H 5/04.

"A TEMPERATURE RESPONSIVE ELECTRICAL CIRCUIT ARRANGEMENT."

Applicant : GRAVINER LIMITED. A BRITISH COMPANY, OF SWORD HOUSE, TOTTERIDGE ROAD, HIGH WYCOMBE, "BUCKINGHAMSHIRE HP 13 6EJ, ENGLAND.

Inventors : 1. ALFRED ROBERT BROWN. 2. RICHARD ANTHONY WHEITON.

Application for Patent No. 822/Mas/84 filed on 2nd November 1984.

Convention date on 4th November, 1983. (U.K.) No. 83 29473.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras-600 002.

12 Claims

A temperature-responsive electrical circuit arrangement, comprising temperature detecting means which is responsive to variations in temperature and whose charge storage capability increases in response to predetermined variations of temperature, driving means connected to the detecting means to apply thereto a continuous alternately positive and negative electrical test waveform, the driving means incorporating circuit means having respectively different impedance through which the positive and negative portions of the wave form are respectively applied, and digital testing means connected to receive the said waveform and operative at predetermined time instants during its positive and negative portions to compare its amplitude with predetermined reference thresholds whereby to determine asymmetry of the waveform caused by an increase in the charge storage capabilities of the detecting means and thereby to detect such increase in charge storage capabilities and thus the variations in temperature.

(Complete Specification 30 Pages)

(Drgs. 3 Sheets)

CLASS : 163008

Int. Cl.⁴—B 03 C 3/66, 3/72

SPARK OVER DETECTOR FOR DETECTION OF SPARK-OVERS IN A PULSE ENERGIZED ELECTROSTATIC PRECIPITATOR.

Applicant : F. L. SMITH & CO. A/S. OF 77, VIGERS-LEV ALLE, DK-2500 VALBY COPENHAGEN, DENMARK, A DANISH COMPANY.

Inventor : Claus E. Taarnning.

Application No. 845/Mas/84 filed November 7, 1984.

Convention dated 9th November 1983 No. 8329845 (UK)

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras-600 002.

3 Claims

A spark-over detector for detection of spark-overs in a pulse energized electrostatic precipitator, comprising a current sensor which provides a voltage signal proportional with the current in the pulse circuit, a first differentiation unit in which the current-representing voltage signal is differentiated, a second differentiation unit, in which the output signal from the first differentiation unit is differentiated, a first level-detecting circuit, which transmits a signal to one input of an AND-gate when the output signal from the second differentiation unit is above a preset level, and a second level-detecting circuit which transmits a signal to a timing circuit as long as the current-representing voltage is above a preset level, the timing circuit transmitting a signal to a second input of the AND-gate from a first preset time after having received a signal from the second level circuit to a second preset time after the said signal has been received or after said signal has ceased, and the AND-gate outputting a signal when there are simultaneous signals on its inputs to indicate that a spark-over is developing.

(Com.—11 pages; Drwg.—1 sheet)

CLASS : 163009

Int. Cl.⁴ : A 61 M 15/00.

"A DEVICE FOR ADMINISTERING MEDICAMENTS BY INHALATION."

Applicant : GLAXO GROUP LIMITED A BRITISH COMPANY, OF CLARGES HOUSE, 6/12, CLARGES STREET, LONDON W1Y 8 DH, ENGLAND.

Inventors : ROBERT EDWARD NEWELL, ROBERT ALEXANDER FITZSIMMONS, PHILIP THOMAS PRICE.

Application for Patent No. 876/Mas/84 filed on 15th November, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras-600 002.

9 Claims

A device for administering medicaments by inhalation comprising a body with a chamber therein, the said chamber having a partition adapted to receive a blister pack having at least one medicament-containing blister, the partition having a locating aperture extending through it so that the blister may be located therein; a cover movable between a closed position in which it closes the chamber and an open position in which it permits a blister pack to be inserted and located in the chamber on the partition; a mouthpiece communicating with the chamber and through which a patent may inhale; at least one air inlet leading into the chamber; and means engageable with a blister of a blister pack in the chamber when the cover is closed to penetrate a container located in the chamber so as to permit medicament to be withdrawn from the penetrated blister when the patient inhales, wherein the cover is hingedly connected with the body and an opener member is carried by the hinged cover and so positioned that when the cover is closed the opener member will pass through the aperture in the partition thereby to open a blister located therein.

(Complete Specification 12 Pages)

(Drgs. 3 Sheet)

CLASS : 50 E2

163010

Int. Cl.⁴ : F 04 C 2/02

SCROLL TYPE FLUID COMPRESSOR.

Applicant : SANDEN CORPORATION, OF 20, KOTOBUKI-CHO, ISESAKI-SHI, GUNMA-KEN, JAPAN, A JAPANESE COMPANY.

Inventors : (1) ATSUSHI KABE AND (2) MASAMI NEGISHI.

Application No. 891/MAS/84 filed November 19, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras-600 002.

4 Claims

A scroll type fluid compressor with a compressor housing having a chamber and a first fluid inlet port connected to said chamber, a pair of scrolls disposed in said chamber, each of said scrolls having a circular end plate and a wrap extending from one end surface of said circular end plate, said wraps interfitted at angular and radial offset to make a plurality of line contacts to define at least one pair of sealed off fluid pockets, a driving mechanism operatively connected to one of said scrolls to effect the orbital motion of said one scroll, and rotation preventing means for preventing the rotation of said one scroll during the orbital motion, the volume of the fluid pockets changing by the orbital motion whereby a fluid introduced into a said chamber through said first fluid inlet port is taken into said sealed off fluid pockets and compressed, in which said compressor housing comprising a second fluid inlet port, first and second holes formed through said circular end plate of a selected one of said pair of scrolls to form a second fluid communication channel between said pair of fluid pockets and said second fluid inlet port, said first and second holes being located at symmetrical locations along said wrap so that the wrap of the other one of said pair of scrolls simultaneously crosses over both of said first and second holes during operation of said compressor, and valve means selectively controlling the opening and closing of said first and second fluid inlet ports so as to change the displacement capacity of said compressor.

Complete specification 16 pages.

Drg. 2 sheets.

CLASS :

163011

Int. Cl.⁴ : B 60 C 11/00.

"UNVULCANISED TREAD STRIP FOR PNEUMATIC VEHICLE TYRES."

Applicant : CONTINENTAL GUMMI—WERKE AKTIENGESELLSCHAFT OF KÖNIGSWORTHER PLATZ 1, 3000 HANNOVER FEDERAL REPUBLIC OF GERMANY, A GERMAN COMPANY.

Inventors : 1. GUNTER SCHAILLMERIER. 2. DR. GERHARD DE-VRIES.

Application for the Patent No. 873/Mas/84 filed on 15th November 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras-600 002.

5 Claims

An unvulcanised tread strip (an untreated strip) for pneumatic vehicles tyres comprising two or more plies disposed one above the other, characterised in that adjacent plies consists of a plurality of projections (3) and correspondings recesses (4) having a width of 0.5 mm to 3 mm by which they engage with one another in a form-fitting manner.

(Complete Specification 5 Pages)

(Drg. 1 Sheet)

Int. Cl.⁴ : A 23 L 3/00.

163012

"A PROCESS FOR PREPARING A FOOD COMPOSITION."

Applicant : SOCIETE DES PRODUITS NESTLE S.A., P.O. BOX 353, 1800 VEVEY, SWITZERLAND, A COMPANY INCORPORATED IN SWITZERLAND.

Inventors : JIMBIN MAI 2. LAURA J. CHAMBERS. 3. RICHARD E. McDONALD.

Application for Patent No. 886/Mas/84 filed on 17th November, 84.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras-600 002.

6 Claims

A process for preparing a food composition which comprises mixing a food susceptible to lipid oxidation with an extract of black tea leaves containing 0.005% to 1.5% by weight of tea solids based on the weight of food and at least 5% by weight of phenols based on the weight of tea solids, wherein said extract is obtained by subjecting black tea leaves to aqueous extraction at a temperature of from 130°C to 210°C.

The products under this invention is useful for preserving food susceptible to lipid oxidation.

(Complete Specification 18 Pages)

(No Drg.)

Int. Cl.⁴ : C 21 B 7/02.

163013

"IMPROVED BLAST—FURNACE."

Applicant : UNION SIDERURGIQUE DU NORD ET DE L'EST DE LA FRANCE, OF FRENCH NATIONALITY, OF DEFENSE 9, 4 PLACE DE LA PYRAMIDE-92070 PUTEAUX, FRANCE.

Inventor : Pierre Bollot.

Application for Patent No. 896/Mas/84 filed on 20th November, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras-600 002.

9 Claims

An improved blast-furnace, the improvement being in the region of the pouring aperture, comprising a casing defining an opening corresponding to the pouring aperture, and a lining of blocks of refractory material closing in a sealed manner said opening by cooperating with a support surface rigid with the casing, wherein the support surface is defined by a support element which is independent of the casing but fixed to the casing, a metal band fixed to the support element and to the casing providing a seal between the support element and the casing.

(Complete Specification 10 Pages) (Drgs. 5 Sheets)

Int. Cl. 4 : B 23 D 81/00

163014

REPLACEABLE GANG HEAD MACHINE TOOL.

Applicant : HONDA GIKEN KOGYO KABUSHIKI KAISHA, (ALSO TRADING AS HONDA MOTOR CO. LTD.) A CORPORATION OF JAPAN, OF NO. 27-8, 6 CHOME, JINGUMAE, SHIBUYA-KU TOKYO, JAPAN.

Inventor : JINSEI IDA, TSUTOMU FUJITA.

Application No. 920/MAS/84 filed 26 November 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras-600 002.

2 Claims

A replaceable gang head machine tool of the type that a machine base is provided thereon, through a slide table arranged to be movable in front and rear directions, with a working unit having a driving electric motor, and an annular rail comprising a front movable rail and a rear stationary rail is provided around the working unit, and plural gang heads are disposed around the annular rail and are supported thereon, and are turnable along on the annular rail by and index table provided thereabove so that any desired one of the gang heads may be selected thereby to be positioned on the movable rail, and the movable rail and the working unit are interconnected through a telescopic arm which comprises a cylinder and a piston rod extending from a piston mounted in the cylinder and is urged toward its contracting side by a spring, wherein a supply source of a pressure fluid such as a pressure air is provided and the same is connected through a communication passage to the cylinder of the telescopic arm so that the arm may be pushed toward its contracting side by the pressure fluid supplied into the cylinder and a detecting means is provided for detecting a retreated and position of the working unit and a slight advanced position thereof which is closer to the movable rail so that the telescopic arm may be changed over between a condition in which the detecting means is in its operative position wherein the cylinder thereof is connected to the supply source of pressure fluid, to supply the pressure fluid into the cylinder, and a condition in which the detecting means is in its inoperative position wherein the cylinder thereof is connected to the exterior, so that the pressure fluid is discharged from the cylinder.

Complete Specification 18 pages and drawings 8 sheets.

Int. Cl. 4—C 07 C 31/30

163015

A METHOD FOR CONTINUOUS PRODUCTION OF ANHYDROUS POTASSIUM TERT-BUTOXIDE.

Applicant : DYNAMIT NOBFL AKTIENGESellschaft, OF POSTFACH 1261, 521 TROISDORF, WEST GERMANY, A WEST GERMAN COMPANY.

Inventors : (1) DR. REINHARD MATTHES (2) HANS-JOACHIM VAHLENSIECK.

Application No. 922/MAS/84 filed November 27, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras-600 002.

5 Claims

A method for continuous production of anhydrous potassium tert. butoxide comprising reacting aqueous potash lye with tert. butyl alcohol in a packed distillation column, and removing water by distillation using cyclohexane and/or hexane as withdrawing agent, the tert-butyl alcohol being present in such excess of the aqueous potash lye and the withdrawing agent such that there is a 10 to 18 wt.% solution of potassium tert. butoxide in the column bottom and the tert. butyl alcohol of the gas mixture at the center of the column is between 50 to 90 wt %; distilling out a mixture of the withdrawing agent, tert. butyl alcohol and water at the column top at temperature of between 65° and 75°C; withdrawing the solution of potassium tert. butoxide produced in the column bottom; and obtaining anhydrous potassium tert. butoxide from the withdrawn solution by distilling out the alcohol. The anhydrous potassium tert. butoxide is useful as a reagent.

(Com.—14 pages; Drwgn.—1 sheet).

CLASS :

163016

Int. Cl. 4 : F 26 B 5/04.

A PROCESS FOR MAKING SUBSTANTIALLY ANHYDROUS MELT OF UREA.

Applicant : UNIE VAN KUNSTMESTFABRIEKEN B.V. A NETHERLANDS COMPANY, OF MALIEBAAN 81, 3581 CG UTRECHT, THE NETHERLANDS.

Inventor : CORNELIS VERWEE.

Application for Patent No. 955/Mas/84 filed on 5th December, 1984.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, Madras-600 002.

6 Claims

A process for making substantially anhydrous melt of urea by concentrating a partly concentrated urea solution, characterised in that a urea solution obtained by evaporation at a pressure between 0.067 and 0.133 bar or a urea solution obtained by melting moist urea crystals, which contains at least 98 per cent by weight urea, is allowed to expand to a pressure between 0.013 and 0.067 bar and the released water vapour is removed.

Compl. specn. 11 pages.

Drg. 1 sheet

CLASS :

163017

Int. Cl. 4 : G 02 B 27/10 & G 01 D 5/26.

AN ELECTRO-OPTICAL INSTRUMENT TO MEASURE AGRONOMICAL PARAMETERS.

Applicant : INDIAN SPACE RESEARCH ORGANISATION, DEPARTMENT OF SPACE, F BLOCK, CAUVERY BHAVAN, DISTRICT OFFICE ROAD, BANGALORE-560 009, KARNATAKA, INDIA.

Inventor : THUTUPAPALI GOPALA KRISHNAMURTY.

Application No. 1059/Mas/84 filed December 31, 1984.

Complete specification left on 14th August, 1985.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, Madras-600 002.

8 Claims

An electro-optical instrument to measure agronomical parameters such as chlorophyll and water contents comprising in sequence :

- (a) a light source;
- (b) a compartment for placing the object under measurement;
- (c) a means for extracting two light beams having pre-determined band widths, one beam falling within the range of 600-700 nanometers and the other falling within the range of 700-900 nanometers;
- (d) a means for detecting the intensity of the light beams; and
- (e) means for processing and displaying the output signals from said detecting means.

Provisional specification 4 pages.

Drg. 1 sheet

Compl. specn. 8 pages.

Drg. 1 sheet

CLASS :

163018

Int. Cl.⁴ : F23 B 1/30.

Applicant & Inventor : EDOUARD TOUILLET, A FRENCH CITIZEN OF SAUTONNE-86330 MARTAIZE, FRANCE.

Application No. 114/Mas/85 filed February 12, 1985.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, Madras-600 002.

3 Claims

Gas producer furnace comprising a housing (2), a combustion chamber (15) located inside said housing, said combustion chamber being laterally delimited by a lateral wall (10) and by a bottom (13) comprising an opening (14), means for air supply (17, 18) having outlets (37, 38) emerging in said combustion chamber (15), characterized in that said bottom (13) comprises a truncated envelope whose opening is in said combustion chamber (15) and a secondary envelope (23) disposed on the top of said truncated envelope, said secondary envelope having the lower opening (24) being above the said opening (14) of the bottom (13), and the upper opening (25) smaller than said opening (14) of said bottom.

Compl. specn. 8 pages.

Drg. 2 sheets

CLASS :

163019

Int. Cl.⁴ : C 07 D 401/04.

A PROCESS FOR THE PREPARATION OF QUINOLINE CARBOXYLIC ACIDS AND DERIVATIVES.

Applicant : KYORIN SEIYAKU KABUSHIKI KAISHA, A JAPANESE BODY CORPORATE OF 2-5 KANDA SURUGADAI CHIYODA KU, TOKYO, JAPAN.

Inventor : TSUTOMU IRIKURA, TOSHIE SHIBA, HIROSHI MATSUKUBO.

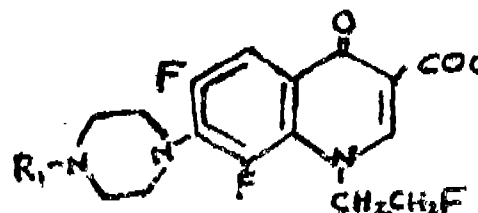
4-177 GI/88

Application No. 211/Mas/85 filed 20 March 1985.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, Madras-600 002.

2 Claims

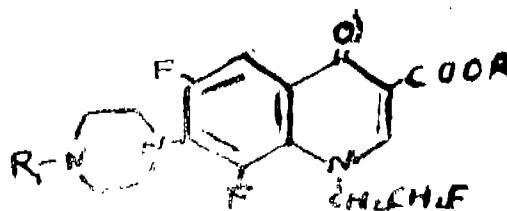
A process for the preparation of a compound of the formula (IV)



Formula IV

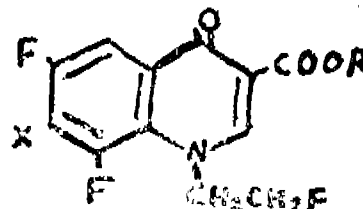
of the accompanying drawings

wherein R₁ is a hydrogen atom or a methyl group, which comprises saponifying a compound of the formula (III),



Formula III

wherein R is a lower alkyl group having 1 to 3 carbon atoms and R₁ is a hydrogen atom or methyl group the said compound of formula (III) being prepared by reacting a compound of the formula (II), wherein R₁ has the above-stated meaning, with a compound of the formula (I), wherein X is a halogen atom and R has the above-stated meaning. The compounds have antibacterial activity against Gram positive and gram-negative bacteria.



Formula II



Formula I

Compl. specn. 11 pages.

Drg. 1 sheet

163020

CLASS : 82F 26

Int. Cl. C 07 D 461/00

"PROCESS FOR THE PREPARATION OF TRANS
STEREISOMERS OF RACEMIC OPTICALLY
ACTIVE EBURNAMENINE"

Applicant : RICHTER GEDEON VEGYESZETI GYAR RT.
of Budapest X., Gyomroi ut 19-21., Hungary, A
Hungarian Company.

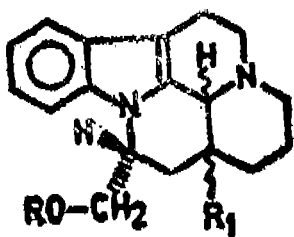
Inventors : 1. JANOS KREIDL. 2. GYORGY VISKY.
3. LASZLO CZIBULA. 4. BELA STEFKO.
5. MARIA FARKAS NEEKIRJAK. 6. ZSOLY
SZOMBATHELYI 7. EGON KARPATI.
8. BCLA KISS. 9. KATALIN CSOMOR. 10.
LASZLO SZPORNY. 11. LILLA FORGACS.
12. CSABA KUTHI. 13. ANIKO GERB.

Application for Patent No. 293/Mas/86, filed on 18th April, 1986.

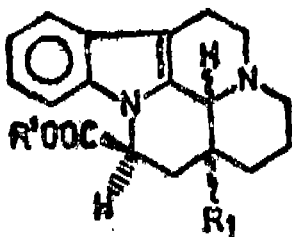
Appropriate office for opposition proceedings (Rule 4 Patents
Rules 1972). The Patent Office Branch, Madras-600002.

6 Claims

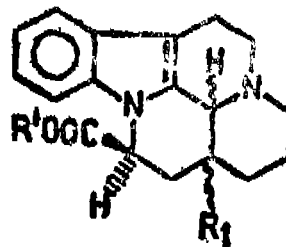
A process for the preparation of the trans stereoisomers of
racemic and optically active eburnamenine derivatives of the
general formula (Ia) as well as their acid addition salts, wherein
 R_1 is a C_{1-4} alkyl group; and R is selected from hydrogen,
a C_{1-6} alkyl group, a C_{2-6} alkenyl group, an acyl or substituted
acyl group which process comprises saturating by catalytic
hydrogenation a trans aprovin-caminic acid ester of the general
formula (IV) where in R_1 is as defined above and R' is C_{1-4}
alkyl, then reducing the thus obtained dihydro- aprovincaminic
acid ester of the general formula (IIIa), wherein R_1 and R'
are as defined above, by using a chemical reducing agent,
preferably a complex metal hydride and if desired, acylate
or alkylating the thus obtained product of the general formula
(Ia) and preparing their acid addition salts by reacting with an
appropriate acid.



Formula (Ia)



Formula (IIIa)



Formula (IIIa)

The compounds prepared according to this invention possess
a peripheral vasodilation action.

Comp. Specification. 40 pages

Drgs. 3 Sheets.

CLASS : 69-B

163021

Int. Cl. : H 01 h 31/00.

IMPROVED VACUUM INTERRUPTER OF AXIAL
MAGNETIC TYPE.

Applicant : KABUSHIKI KAISHA MEIDENSHA, OF
1-17, OHASAKI 2-CHOME, SHINAGAWA-KU, TOKYO,
JAPAN.

Inventors : 1. Y. OSHIYUKI KASHIWAGI, 2. YASUSHI
NODA, 3. KAORU KITAIZAKI.

Application No. 193/Cal/84 filed March 20, 1984.

Appropriate office for opposition proceedings (Rule 4
Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

An improved vacuum interrupter of axial magnetic type
for use in electric circuit comprising a pair of separable
contact electrodes (13, 24), each of which consists of a
disc-shaped arc-diffusing portion (20) and a contact making
portion (19) projecting from a central portion of an arc-
ing surface of the arc-diffusing portion (20), a vacuum
envelope (4) which is electrically insulating and enclosing
the contact electrodes (13, 24), and means for applying
magnetic field (14, 30) in parallel to an arc established
between the contact electrodes (13, 24) when said contact
electrodes are separated, wherein said arc diffusing
portion (20) of at least one (13) of the contact electrodes
(13) is made of material of 20 to 60% IACS electrical
conductivity.

Compl. specn. 62 pages.

Drg. 16 sheets

CLASS : 98-C & E; 176-G & I

163022

Int. Cl. : F 23 d 1/02; F 23 n 5/00; F 23 q 7/02.

A SYSTEM FOR THE IGNITION OF THE LIGHT-
ING DEVICE OF BIG PLANTS OPERATED WITH
COAL DUST.

Applicant : BEB KOMBINAT KRAFTWERKSANLA-
GENBAU, HANS-BEIMLER-STRASSE 91/94, DDR-1017
BERLIN, GERMAN DEMOCRATIC REPUBLIC.

Inventors : 1. DR. GUTTER GERHARD, 2. HOMILIUS
SIEGFRIED, 3. OEHMIG HANS, 4. TELLER HEINZ-
DIETER, 5. WRANA JOACHIM.

Application No. 434/Cal/84 filed June 21, 1984.

Appropriate office for opposition proceedings (Rule 4
Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A system for ignition of lighting plants of big steam boilers operated with coal dust produced at site from hard coal or lignite coal comprising a fuel storage bunker (3) in operational association with a main coal dust burner (1) through a pneumatic conveyor a first fuel dust pipe and an ignitious burner in that order, said fuel storage bunker being also further in operational association with a coal dust mill through a cyclone and a coal dust separation device in that order, said coal dust separation device being adapted to feed said main coal dust burner through a second fuel dust feed pipe, said cyclone being provided with an automatic opening and closing blocking armature adapted to fill the storage bunker through said cyclone as desired the coal dust mill being adapted to receive coal from a feeder through a coal shaft the arrangement being such that said bunker as adapted to feed the said ignition combustion chamber at the start of operation through said conveyor and fuel dust pipe to be ignited to the ignition combustion chamber, which has previously been fed with coal dust by said bunker the said main coal dust mill being adapted to feed coal dust to said main coal dust burner to be burnt therein, the said coal dust mill being when desired adapted to be switched into operation by said blocking armature with said cyclone and said bunker till such time as required.

Compl. specn. 21 pages.

Drg. 2 sheets

CLASS : 127-I

163023

Int. Cl. : B 65 g 65/02.

AN APPARATUS FOR LOADING FLUENT BULK MATERIAL.

Applicant : PEBCO, INC., OF P.O. BOX 7506, PADUCAH, KENTUCKY 42001, UNITED STATES OF AMERICA.

Inventors : 1. RODNEY C. FRANCE.

Application No. 530/Cal/85 filed July 17, 1985.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

An apparatus for loading fluent bulk material, such as coal, into a continuously moving substantially constant speed train with cars passing a load-out station comprising :

- a scale means for weighting material sufficient to fill each car with the target weight;
- a load-out chute at the load-out station for substantially evenly feeding the material into each car;
- means for regulating the height of the material fed into each car;
- computer means for comparing the weight of material flowing into the front and the rear of each car in time with the train movement; and
- an adjusting means for said regulating means to substantially even the load for comparable cars following in line

Compl. specn. 19 pages.

Drg. 5 sheets

163023

Class. 172-C₉ & D.

Int. Cl. D 01 g7/00, 7/04, 9/00, 9/06.

OPENING CYLINDER FOR OPEN END SPINNING MACHINES R THE LIKE.

Applicant : STAEDTLER & UHL, NORDLICHE RING-STRASSE 12, D-8540 SCHWABACH, FEDERAL REPUBLIC OF GERMANY.

Inventor : 1. JOSEF EGERER.

Application No. 726/Cal/85 filed October 14, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

Opening cylinder for open-end spinning machines or the like comprising a cylindrical basic body with helically running grooves (2) to accommodate fittings, (8) characterized in that the grooves exhibit an undercut for accommodating the root of a needlebar and run at an acute angle(X) to the longitudinal axis of the cylindrical basic body.

Compl Specn. 6 Pages.

Drg. 1 Sheet

Class. 32-C + 35-B₁

163025

Int. Cl. A 61k 23/00, C 07g 7/00.

METHOD OF OXIDIZING A FULLY REDUCED RECOMBINANT PROTEIN SELECTED FROM THE GROUP CONSISTING OF INTERFERON-BETA INTERLEUKIN-2-AND MUTEINS THEREOF.

Applicant : CETUS CORPORATION, AT 1400 FIFTY-THIRD STREET, EMERYVILLE, CALIFORNIA 94608, UNITED STATES OF AMERICA.

Inventors : 1. KIRSTON EDWARD KOTHS,
2. ROBERT FORGAN HALENBECK.

Application No. 806/Cal/85 filed November 13, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A method of oxidizing a fully reduced recombinant protein selected from the group consisting of interferon-beta, interleukin-2 and muteins thereof, whereby cysteines are oxidized preferentially to form the disulfide bridges which correspond to those present in the naturally occurring protein, which method is characterized by reacting an aqueous solution containing a solubilized form of the recombinant protein such as herein described at a pH between 5.5 and 9 in the presence of air with at least an effective amount such as herein described of an oxidation promoter containing a Cu⁺2 cation.

Compl. Specn. 29 pages.

Drg. 8 Sheets

CLASS : 39-F & 130-F

163026

Int. Cl. : B 01 j 1/00; C 19 k 3/00.

AN IMPROVED METHOD FOR REDUCING LARGE AGGLOMERATION OF CARRIDE-BASED DESULFURIZING REAGENTS.

Applicant : CYANAMID CANADA INC., AT 2255 SHEPPARD AVENUE EAST, WILLOWDALE ONTARIO, M2J 4Y5, CANADA.

Inventors : 1. ARARAT HACETOGLU, 2. WILLIAM KEVIN KODATSKY, 3. RAY OMER GONZALES.

Application No. 858/Cal/85 filed December 3, 1985.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

An improvement in or relating to a method for reducing large agglomerations of carbide-based desulfurizing reagents by milling prior to use thereof in the desulfurization of molten metal, the improvement which comprises milling said reagents in the presence of an alcohol whereby the quantity of fine particles produced is increased.

Compl. specn. 10 pages.

Drg. Nil

CLASS

163027

Int. Cl. : B 66 b 15/00.

ARRANGEMENT FOR LIFTING AND LOWERING OR FOR PULLING LOADS.

Applicant : N. V. SKY CLIMBER EUROPE S.A., NAMLOZE VENNOOTSCHAP, AT 2630 AARTSELAAR (BELGIUM) BOOMSESTEENWEG 14.

Inventor : 1. JOHANNES RINJO.

Application No. 25/Cal/86 filed January 14, 1986.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

Arrangement for lifting and lowering or for pulling loads, preferably by means of a wire rope, which has a traction sheave made of two sheave halves that can be pressed together under jamming the rope, which sheave halves are parallel to one another and at their periphery have a common V-shaped rope groove, which in the inlet area of the rope is associated opposite to a rope-supporting element, characterized thereby that said sheave halves (7, 14) are spring-loaded pressed together and that fixedly mounted rope-supporting elements (20, 36, 41), which engage in the rope groove (2, 3), are associated with said rope groove (2, 3) in the entire wrapping area of the rope (16).

Compl. specn. 17 pages.

Drg. 7 sheets

CLASS : 93 & 129-G, H & Q

163028

Int. Cl. : B 22 f 3/08; B 23 p 3/09; B 23 k 19/00.

WORKTABLE FOR AN APPARATUS FOR EXPLOSION WORKING OF MATERIALS.

Applicant : SPETSIALNOE KONSTRUKTORSKOE BJURO GIDROIMPULSNOI TEKNIKI SIBIRSKOGO OTDELENIJA AKADEMII NAUK SSSR, OF NOVOSIBIRSK, ULITSA TERESHKOVI, 29, USSR.

Inventors : 1. JURY GRIGORIEVICH KUZNETSOV, 2. JURY PETROVICH RYKOV.

Application No. 29/Cal/86 filed January 16, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A worktable for an apparatus for explosion working of materials, comprising a casing disposed above a shock-absorber, defining a closed interior space and having an oscillation damper being disposed in the closed interior space with a clearance which is smaller than deformation of the shock-absorber for movement with respect to the closed interior space in the direction along the vertical axis of the worktable.

Compl. specn. 12 pages.

Drg. 2 sheets

CLASS : 160-C

163029

Int. Cl. : B 60 r 27/00.

VEHICLE PERFORMANCE MONITORING APPARATUS.

Applicant : MASSEY-FERGUSON SERVICES N.V. OF ABRAHAM DE VEERSTRAAT 7A, NETHERLANDS ANTILLES.

Inventor : 1. REGIS BELLANGER.

Application No. 273/Cal/86 filed April 4, 1986.

Convention dated 12th April, 1985 ((8509488) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A vehicle performance monitoring apparatus for displaying the values of a plurality of performance parameters of a vehicle, said apparatus comprising sensing means for sensing data indicative of the performance of the vehicle, processing means for processing said data to provide said parameter values, display means for displaying said parameter values, and operator command means for controlling the operation of the apparatus including the selection of which performance parameter is to be displayed on the display means and the initiation of processing routines by the processing means, the apparatus being characterised by including memory means for storing performance information relating to said parameters and that said processing means is arranged such that in response to a predetermined operation of the operator command means a performance parameter value for each of a number of said parameters is stored in said memory means as a reference value so that subsequently, when the apparatus is operated in a relative mode, the current performance parameter values for said one or more parameters (hereinafter referred to as the relative mode parameters) are processed by said processing means and are displayable on said display means as proportions of their respective reference values.

Compl. specn. 18 pages.

Drg. 5 sheets

CLASS : 19-A

163030

Int. Cl. : E 21 d 21/00.

EXPANSION TYPE ANCHOR BOLT.

Applicant : HUCK MANUFACTURING COMPANY, AT 6 THOMAS, P.O. BOX 19590, IRVINE, CALIFORNIA 92713, UNITED STATES OF AMERICA.

Inventors : 1. RICHARD DANIEL DIXON, 2. JOHN HOWLAND RUHL.

Application No. 336/Cal/86 filed April 29, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

An anchor bolt for fastening a workpiece to a structure of concrete or the like by a relative axial force applied by a pull tool to the anchor bolt when positioned within a fastening bore in the structure, said anchor bolt comprising a tubular expansion sleeve having a through bore, a pin including a shank, a pull portion on said pin shank, a lock portion on said pin shank having a plurality of circumferentially extending lock grooves, a breakneck groove

defining the weakest portion of said pin shank and located between said pull portion and said lock portion, a shank portion located adjacent said lock portion and being of a diameter to be received within said sleeve bore, a sleeve expansion section located at the opposite end of said shank portion, a tubular collar adapted to be located on said pin shank and to be swaged into said lock grooves in response to a first preselected magnitude of said relative axial force, said sleeve expansion section adapted to be moved axially within said sleeve bore in response to said relative axial force to radially expand said confronting portion of said sleeve radially outwardly for gripping engagement with said structure bore.

Compl. specn. 29 pages.

Drg. 1 sheet

Ind. Cl. : 70B+70C6 [LVIII(5)]

163031

Int. Cl. : B 01k—3/10.

A DIAPHRAGM TYPE ELECTROLYSIS CELL.

Applicants : ORONZIO DE NORA IMPIANTI ELETTOCHIMICI S.p.A. AT VIA BISTOLFI 35, 20135 MILANO, ITALY.

Inventor : (1) ORONZIO DE NORA.

Application No. 135/BOM/1985 filed on May 17, 1985.
Patent of addition to 266/Bom/80 (154318) filed on Sept. 9, 1980.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

14 Claims

A diaphragm type electrolysis cell provided with at least one set of anode and cathode separated by a diaphragm, wherein at least one of said anode and cathode being an electrode structure, comprising a planar coarse mesh metal screen and a thin fine mesh metal screen having an electro-catalytic surface and having at least ten strands or meshes per inch disposed over the coarse mesh metal screen and in electrical contact therewith, said fine mesh screen directly facing the diaphragm.

Comp. Specn. 18 pages, Drg. 1 sheet.

Ind. Cl. 126A + D

163032

Int. Cl. G01d-5/00, 5/20.

AN ELECTRONIC DEVICE FOR DETERMINING AND MONITORING THE POSITION OF A MOVING MAGNETIC OBJECT WITHIN A CONFINED SPACE DEFINED BY NON-MAGNETIC MATERIAL.

Applicant : AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, AN INDIAN REGISTERED BODY, REGISTERED UNDER SOCIETY'S REGISTRATION ACT, XXI OF 1860, P.O. POLYTECHNIC, AHMEDABAD-380 015, GUJARAT, INDIA.

Inventors : (1) MANSUKHLAL HANSRAJBHAI DHINGANI, (2) JAYAVANT SHANTILAL PARAJIA, (3) ATHOLI CHANDRAMOHAN AND (4) MONSINGH RATNA PRABHU.

Application No. 149/Bom/1985 filed on 17th June, 1985.

Complete after Provisional left on 15th September, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

4 Claims

An electronic device for determining and monitoring the position of a moving magnetic object within a confined passage/space defined by opaque wall/barrier, comprising an inductance unit surrounding the said opaque wall/barrier, which is made of non-magnetic material, such as herein described, and the moving object incorporating a piece of magnetic material, or being surrounded by, by a layer of magnetic material, or fully made of magnetic material, such as herein described, of pre-selected permeability depending on the mass of the magnetic material and the relative distance of the object from the said opaque wall/barrier of non-magnetic material, said inductance unit having a generator section for generating a local magnetic field which is perturbed according to the position of the moving object in relation to the passage/space, and a sensor section for sensing the resultant field which is related to the position of the moving object, the said sensor section also generating a suitable output signal, and known electronic means for converting the output signal into analog or digital form for determining and monitoring the position of the moving object in relation to the passage/space.

Prov. Specn. 6 pages, Drg. 1 sheet.

Comp. Specn. 9 pages, Drg. Nil

CLASS : 170B + D.

163033

Int. Cl. C11d-1/14, 3/30

A BUILT DETERGENT BAR COMPOSITION.

Applicants : HINDUSTAN LEVER LIMITED, 165/166 BACKWAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventor : PETER JAMES POWERS.

Application No. 165/BOM/1985 filed Jan. 28, 1985.

U. K. Convention Priority Date 3-7-1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

10 Claims

A built detergent bar composition intended for direct application containing from 10% to 45% by weight of non-soap detergent active material and from 5% to 60% by weight of detergency builder wherein said composition contains from 10% to 35% by weight of primary alcohol (C8 to C22) sulphate active, characterised in that said composition further includes at least 0.5% by weight of alkanolamine component containing 2 to 4 carbon atoms in each alkyl group, provided the amount of alkanolamine component is equivalent to not less than 15% but not more than 60% molar relative to the amount of primary alcohol sulphate anion present.

Comp. Specn. 12 pages, Drgs. Nil.

Ind. Cl. 45E + 55A

163034

Int. Cl. : A47k-13/24, 13/30-E03d-9/02 + C11d-10/02, 3/12, 3/37.

A PROCESS FOR PREPARING LAVATORY CLEANSING BLOCKS FREE FROM PARA-DICHLOROBENZENE AND LAVATORY CLEANSING BLOCKS THEREBY OBTAINED.

Applicants : HINDUSTAN LEVER LIMITED, 165/166, BACKWAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors : (1) DAVID ELLIS CLARKE AND (2) BRYAN STUART JOY.

Application No. 173/Bom/1985 filed on Jul. 5, 1985.

U. K. Convention Priority Date 6-7-1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

8 Claims

A process for preparing a lavatory cleansing block which is free from para-dichlorobenzene comprising the steps of mixing an anionic surfactant, an inert and/or electrolyte filler and a known oily liquid perfume to form a dough, extruding said dough and cutting it into blocks of suitable lengths, the aforesaid ingredients being mixed in suitable amounts such that the blocks prepared have the following composition :

from 40 to 90% by weight of an anionic surfactant;

from 5 to 55% by weight of an inert and/or electrolyte filler; and

from 5 to 15% by weight of an oily liquid perfume, the weight ratio between the anionic surfactant and the electrolyte filler being greater than 2.

Comp. Specn. 11 pages, Drgs. Nil

Ind. Cl. 69D [LIX(1)]

163035.

Int. Cl. : H01f-7/00.

AN IMPROVED CIRCUIT FOR THE D.C. CONTROL OF A.C. ELECTROMAGNETIC DEVICE(S).

Applicant: LARSEN & TOUBRO LTD., OF L&T HOUSE, BALLARD ESTATE, BOMBAY-400 038, MAHARASHTRA INDIA.

Inventors : (1) NOAH HANNOCK RAMRAJKAR, (2) NAGESH DINKAR KULKARNI.

Application No. 177/Bom/1985 filed on July 5, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

5 Claims

An improved circuit for the d.c. control of a.c. electromagnetic device(s) said circuit comprising a main circuit having the coil of electromagnetic device(s) such as a.c. operated contractor(s) connected in series with a pick-up economy resistor and a hold-on economy resistor; and an auxiliary circuit provided in parallel to said main circuit and having the coil of auxiliary switching device(s) such as herein described connected in series with a current limiting resistor, a normally closed contact actuable by said electromagnetic device(s) and in parallel to a first normally open contact actuable by said auxiliary switching device(s), a second normally open contact connected across the coil of said auxiliary switching device(s) and actuable by said electromagnetic device(s) and a third normally open contact connected across said hold-on economy resistor and actuable by said auxiliary switching device(s), said main circuit and auxiliary circuit being connectable to a d.c. supply.

Complete specification 11 pages. Drawings 4 sheets.

Ind. Cl. 128G

163036

Int. Cl. A61f-7/00.

ELECTRIC STEAM GENERATOR FOR MEDICAL FOMENTATION

Applicant & Inventor : PRIYAL KHANDERAO KULKARNI AND VIJAY PRIYAL KULKARNI BOTH AT MOHOR, 64/17, ERANDAVANE, PUNE-411 004, MAHARASHTRA, INDIA.

Application No. 241/Bom/1985, filed on 9th September, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

2 Claims

An electric steam generator for fomentation of human body, the generator comprising a water container connected by a tube to a steam unit in which an electric heater is dipped in water, the said steam unit, connected to an insulated steam gun in which a perforated container for medicinal matter is placed and through which steam passes in upward direction for spreading on human body and the said steam gun being provided with a handle for holding it and a drain hole at the bottom to remove condensed steam from the steam gun, the drain hole opened and closed by a screw.

Complete specification 7 pages. Drawing 1 sheet.

Ind. Cl. 179G, 125B₁, 125B₂

163037

Int. Cl. B65d-47/20, B67d-5/00.

A DEVICE FOR DISPENSING TWO VISCOUS SUBSTANCES SEPARATELY SIMULTANEOUSLY.

Applicants : PIDILITE INDUSTRIES PRIVATE LIMITED, REGENT CHAMBERS, NARIMAN POINT, BOMBAY-400 021, MAHARASHTRA, INDIA.

Inventor : MADHUKAR BALVANTRAY PAREKH.

Application No. 12/Bom/86 Filed on Jan 8, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

6 Claims

A device for dispensing two viscous substances separately simultaneously, said device comprising a pair of hollow cylindrical members disposed adjacent to each other lengthwise and joined together externally, said cylindrical members each being provided with a nozzle member at one end thereof serving as the discharge end thereof, said cylindrical members being further provided with a common flange member around the other ends thereof; a pair of plunger members each being located in each of said cylindrical members through the other end each of said cylindrical members and movable in the respective cylindrical member back and forth, the inner end each of said plunger members being adapted to be in close contact with the inner surface of the respective cylindrical member and prevent leakage of said viscous substances through therebetween, said plunger members being removable from said cylindrical members through the other ends thereof, the outer ends of said plunger members being interconnected by and supported on a common support member, said support member confronting said flange member; and closure means provided in the discharge vent of said nozzle members.

Complete specn. 13 pages. Drawings 5 sheets.

CLASS : 201 C

163038

Int. Cl. : Co 2 f—1/52.

PACKAGE WATER TREATMENT PLANT.

Applicant & Inventor : ANAND GOVIND BHOLE, QUARTER NO. 7, VISVESVARAYA REGIONAL COLLEGE OF ENGINEERING, NAGPUR-440 011. MAHARASHTRA, INDIA.

Application No. 31/Bom/1986 filed on 22 Jan., 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-400 013.

6 Claims

A package water treatment plant for treating water comprising a TRAPEZOIDAL shaped flocculating chamber with one inclined and three vertical sides resulting in decrease of water velocity along its direction of flow, having a water inlet in the form of a pipe with a plurality of perforations at its lower end and containing a graded-pebble-bed, a sedimentation chamber having an upper part and a lower part and adjoining the flocculating chamber such that the lower part of the settling chamber communicates with the upper end of the flocculating chamber, the sedimentation chamber having sludge draining valves at its lower end and a water outlet towards its upper part and containing a settler system with MODIFIED CHEVRON TUBES for trapping flocculated matter in water, a declined rate filter having a water inlet and water outlet that containing a sand bed TRAPEZOIDAL in cross-section with one inclined and three vertical sides and supported by a gravel bed, and a pipe network provided in the gravel bed, the pipe network comprising a main pipe one end of which is closed and the other end communicates with the water outlet of the filter chamber and a plurality of pipes provided on either side of the main pipe each said pipe having a plurality of perforations along its length and being closed at the free end, the filter chamber adjoining the sedimentation chamber such that the water outlet of the sedimentation chamber communicates with the water inlet of the filter chamber.

Compl. Specn. 16 pages.

Drgs. 2 sheets.

Ind. Cl. : 45G3

163039

Int. Cl. : E038—1/14.

AN IMPROVED DUAL DISCHARGE WATER SAVING FLUSHING CISTERN.

Applicant & Inventor : BANWARI RAMLUBHAYA AGARWAL, AN INDIAN OF C/o. MADH POLYMER, 29, GOVERNMENT INDUSTRIAL ESTATE, CHARKOP, KANDIVALI (WEST), BOMBAY-400 067, STATE OF MAHARASHTRA, INDIA.

Application No. : 34/Bom/1986 filed on Jan. 28, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

3 Claims

An improved dual discharge water saving flushing cistern comprising a body partly covered and partly opened at the top, a lid provided on the open part of the top of the said body, a discharge opening provided in the bottom of the said body, a ball cock assembly provided in the said body for automatic opening and closing the water supply to the said body, an overflow pipe provided in the top portion of the said body, a pair of knobs of different lengths provided in the top of the said body, one having small length forming low discharge knob and other having bigger length forming high discharge knob, each of the said knobs passing through a guide bush fixed to the top of the said body with the help of a nut, a spring provided around each of the knobs and above the said guide bush, free ends of the knobs resting over the knob flaps fixed on a rod rotatably mounted in the upper portion of the said body, a plunger flap fixed in the centre of the said rod, a dash pot assembly provided inside

the said body consisting of an upper cylinder and a lower cylinder, the said lower cylinder having a projecting threaded collar fixed in the discharge opening at the bottom of the said body and having a tapered seat, with the help of a check nut, a plurality of circumferential openings provided in the side wall of said lower cylinder, the said upper cylinder, is open at the top and closed at the bottom and a cover provided at the top, a central hole provided in each of the said top cover and the bottom of the upper cylinder for passing therethrough a plunger rod having a conical body fixed at the lower end and the upper end of which being fixed to the said plunger flap, a plunger and a baffle fixed to the said plunger rod which moves up and down inside the upper cylinder, a plurality of holes provided in the said plunger the said conical body having a central metal core and a rubber lining on the outer surface and meshing with the said tapered seat.

Compl. Specn. 9 pages.

Drg. 1 sheet.

Ind. Cl. : 195 G XXIX(3)

163040

Int. Cl. : F 16 K—17/04.

IMPROVEMENTS IN OR RELATING TO VALVE TO CONTROL WATER HAMMER PRESSURE IN PUMP-ING MAIN, CARRYING LIQUID.

Applicant & Inventor : VIJAY PRIYAL KULKARNI, MOHOR, 64/17, ERANDAVANE, PUNE-411 004, MAHARASHTRA STATE, INDIA.

Application No. 55/Bom/1986 filed on February 12, 1986.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay.

2 Claims

An improved valve to control water hammer in pumping main, the valve comprising an outer casing in globular shape fitted with radial streamlined struts to hold a central guide rod on which is fitted a conical dome to form an annular streamlined passage for flow of liquid, the improved valve having a closing disk fitted on a two point support bearing for smooth sliding on the central guide rod and prevent tilting of disc under unbalanced hydraulic forces and on the periphery of the said closing disk are fitted on horizontal axis a pair of radially extending guide plates to prevent rotation of disc, the said guide plates sliding on support plates welded on the periphery of outer casing so that the weight of disk is transferred to support plates and the said valve is further provided with three or more springs to provide closing force to the disk, the said springs being conical in form to avoid buckling and with large ends of springs resting on stationary vertical plate of conical dome and the small ends of springs engaged on the ends of screws threaded through nuts welded on the vertical plate of closing disk, the said screws having square portions at each end to facilitate adjustment of springs, pressures, through hand holes.

Compl. Specn. 11 pages.

Drg. 1 sheet.

Int. Cl. : C 12 P 1/06.

163041

PROCESS FOR ISOLATING AN ANTIBIOTIC AND/OR β -LACTAMASE INHIBITORY MATERIAL.

Applicant : ANTIBIOTICOS S.A., A SPANISH COMPANY OF BRAVO MURILLO 38, MADRID 3, SPAIN.

Inventors : (1) CARMEN MAROTO ALMENA, (2) MIGUEL ANGEL MORENO VALLE & (3) JOSE LUIS FERNANDEZ.

Application No. 315/Mas/86 filed April 25, 1986.

Convention dated 26th April, 1985, Great Britain, Application No. 8510628.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

3 Claims

A process for isolating an antibiotic and/or betalactamase inhibitory material selected from the compounds Ab-650a, Ab-650c₁ and Ab-650c₂, comprising the steps of culturing streptomyces Sp-A61-7(ASA) (NCIB12066) or a variant or mutant of this strain as a batch liquid culture at a pH of 6 to 7.5 temperature of 25° to 32°C in order to give a fermentation broth and then isolating the antibiotic and/or betalactamase inhibitory material by a chromatographic process from the resultant mixture.

The compounds of this invention can be used for pharmaceutical preparation.

Compl. Specn. 41 pages.

Drgs. 7 sheets.

Int. Cl.⁴: A 01 N 59/00.

163042

A METHOD FOR MANUFACTURING A HERBICIDAL COMPOSITION.

Applicant: UNION OIL COMPANY OF CALIFORNIA, A CORPORATION OF THE STATE OF CALIFORNIA, OF 461 SOUTH BOYLSTON STREET, LOS ANGELES, CALIFORNIA 90017, U.S.A.

Inventor: DONALD C. YOUNG.

Application No. 326/Mas/1986 filed on 29th April, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

9 Claims

A method for manufacturing a herbicidal composition which comprises forming a combination of urea, sulfuric acid, and a systemic herbicide as herein defined chemically stable in said composition, in which combination the molar ratio of urea to sulfuric acid is within the range of 1/4 to 7/4.

The herbicidal composition under this invention can be applied to vegetation and/or to the soil (when pre-mergent activity is desired) at dosage rates sufficient to control undesired vegetation, seeds, and/or unemerged seedlings.

Compl. Specn. 44 pages.

Drgs. 2 sheets.

Int. Cl.⁴: C 12 P 13/08.

163043

PROCESS FOR PRODUCING L-LYSINE BY FERMENTATION.

Applicant: KYOWA HAKKO KOGYO CO. LTD., A JAPANESE COMPANY, OF 6-1 OHTEMACHI ITOCHOME CHIYODA-KU, TOKYO, JAPAN.

Inventors: (1) TOSHIHIDE NAKANISHI, (2) TOMOKI AZUMA, (3) TOSHIHIKO HIRAO, (4) KIYOJI HATTORI, (5) MINORU SAKURAI.

Application No. 660/MAS/86 filed August 14, 1986.

Divisional to 767/Mas/84 (Ante-dated to 10th August, 1982).

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

6 Claims

A process for producing L-lysine, which comprises culturing a microorganisms belonging to the genus *Brevibacterium* and having both an ability to produce L-lysine and a

resistance to antibiotics of two or more selected from the group consisting of penicillin G, cephalosporin C, streptomycin, dihydrostreptomycin, rifampicin, chloramphenicol, tetracycline, spiramycin, erythromycin, kanamycin, kasugamycin, mitomycin C, actinomycin D, polymyxin, colistin, lincomycin, gentamicin, sagamicin, fortimicin and cleandomycin or a resistance to at least one of purine analog and pyrimidine analog in a nutrient medium containing a carbon source, a nitrogen source and an inorganic material at 20 to 40°C for 1 to 6 days at a pH ranging from 3 to 9, forming and accumulating L-lysine in the resulting culture liquor, and recovering the L-lysine therefrom by using one or more of the conventional methods such as ion exchange resin treatment, concentration absorption and salting-out.

The compound prepared according to this invention is used as animal food and as a drug intermediate.

Compl. Specn. 17 pages. No drawing.

Int. Cl.⁴: C 07 D 215/14.

163044

PROCESS FOR PREPARATION OF NOVEL QUINALDINAMIDE DERIVATIVES.

Applicant: NIPPON CHEMIPHAR CO., LTD., A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF JAPAN, OF 2-2-3, IWAMOTO-CHO, CHIYODA-KU, TOKYO, JAPAN.

Inventors: (1) MITSUO MASAKI, (2) HARUHIKO SHINOZAKI, (3) MASARU SATOH, (4) NAOYA MORI-TOH, (5) KOICHI HASHIMOTO AND (6) TOSHIRO KAMISHIRO.

Application No. 677/Mas/86 filed August 22, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims

A process for the preparation of a quinaldinamide derivative of the formula shown in Fig. 2 of the accompanying drawings.

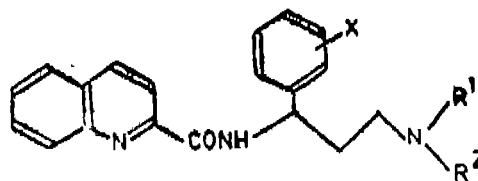


Figure-2

wherein each of R¹ and R² independently represents a lower alkyl group containing 1-6 carbon atoms or R¹ and R² are combined together with the adjacent nitrogen atom to form a 5-7 membered ring; and X represents the hydrogen atom, a lower alkyl group containing 1-6 carbon atoms or a lower alkoxy group containing 1-6 carbon atoms and its acid-addition salt, which comprises reacting quinaldinic acid of the formula shown in Fig. 3 the drawings,

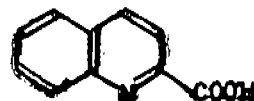


Figure-3

Inventors : 1. TAKAFUMI SHIMIZU, 2. ICHIRO TOMIZAWA.

Application No. 789/Cal/84 filed November 15, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A subscriber line radio concentration system for concentrating a plurality of subscriber terminal stations through radio channels to a master station, at least one of said subscriber terminal stations comprising an automatic response equipment :

said automatic response equipment comprising :

- a ringing signal rectifying circuit for rectifying a ringing signal transmitted from said master station through a subscriber line to said subscriber terminal station;
 - a charging circuit for boosting the voltage rectified by said ringing signal rectifying circuit;
 - a voltage-stabilizing circuit for providing a constant voltage for a predetermined period when the output voltage from said charging circuit exceeds a predetermined value;
 - an oscillating circuit for generating a predetermined frequency signal when said constant voltage is generated from said voltage-stabilizing circuit;
 - a quasi OFF HOOK setting circuit for conducting said predetermined frequency signal from said oscillating circuit through said subscriber line to said master station; and
- further comprising a relay circuit driven by said constant voltage, said quasi OFF HOOK setting circuit being adapted to conduct said predetermined signal in response to the output of said relay circuit.

Compl. specn. 14 pages.

Drq. 4 sheets

CLASS : 6-A2, 36-B

163048

Int. Cl. : P 04 c 3/00.

A POSITIVE DISPLACEMENT SCREW MACHINE.

Applicant: BERNARD ZIMMERN, OF 6, NEW STREET, EAST NORWALK, CT 06855, U. S. A.

Inventor : 1. LUC LANGOUET.

Application No. 222/Cal/85 filed March 25, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A positive displacement screw machine such as compressor or an expansion machine, comprising at least one screw (23) provided with thread grooves and threads crest and rotatably mounted in a bore of a casing (21), at least one rotatably mounted meshing with the screw in order to define in the thread grooves variable volume chambers, at least one low pressure plenum and at least one high pressure plenum being arranged in the casing on either end of the screw, at least one groove (27) communicating with the high pressure plenum and with the low pressure plenum being arranged in the casing along the bore, wherein a stationary separation wall (30) separates in said groove the high and low pressure plenums, a space being provided between a free end of said wall and the screw, wherein a slide (32) is slidably mounted in said space in substantially leak-tight contact, at least during part of its travel, on a one side with said free end, on another side with the screw, and wherein means are provided for retaining the slide against the separation wall.

Compl. specn. 19 pages.

Drqs. 6 sheets

CLASS 98-D & G.

163049

Int. Cl. : F 28 c 1/00.

PLATE HEAT EXCHANGER FOR HEATING OR COOLING LIQUID SUBSTANCES.

Applicant : VEB KOMBINAT NAGEMA, OF DDR-8045 DRESDEN, BREITSCHIDSTR. 46-56, GERMAN DEMOCRATIC REPUBLIC OF GERMANY.

Inventor : 1. ARNOLD BALIA.

Application No. 371/Cal/85 filed May 16, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

Improvements in or relating to plate heat exchanger for heat transfer between flowing liquids separated by the plates of the heat exchanger consisting of a number of similar heat transfer plates with profiled heat transfer surface flow channels being formed with preferably rectangular cross-section between two adjacent heat transfer surface and adapted to change the direction of flow of material passing through the passage apertures provided therein so that the same substance consecutively passes through at least two flow channels, characterized in that the flow directions in neighbouring flow channels cross one another and that the profiled heat transfer plates are provided with seals and preferably possess a square shape, which on each of its sides are provided with external passage apertures, adapted such that the longitudinal extent (L) of the said passage apertures is a multiple of the average height (hm) of the said passage apertures (2) and preferably corresponds to the width of the flow, and that the said passage apertures situated opposite one another of two adjoining heat transfer plates are adapted to ensure the same direction of flow of substance.

Compl. specn. 18 pages.

Drq. 1 sheet

CLASS : 69-B.

163050

Int. Cl. : H 02 h 7/04.

SECONDARY CIRCUIT BREAKER FOR DISTRIBUTION TRANSFORMER WITH INDICATOR LIGHT SWITCH MECHANISM.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY UNITED STATES OF AMERICA.

Inventor : 1. RAYMOND JOSEPH RADUS.

Application No. 576/Cal/85 filed August 5, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office, Calcutta.

8 Claims

A distribution transformer comprising a housing, a transformer disposed within the housing, a circuit interrupter disposed within the housing and operable between a closed position permitting current flow through the transformer and an open position interrupting flow through the transformer, the circuit interrupter being operable to automatically trip to the open position upon overload current conditions through the transformer, the circuit interrupter having a releasable latch arm operable to maintain the circuit interrupter in a closed position, a latch plate movable between latched and unlatched positions of said arm, a reciprocable cam movable between unlatched and latched positions of the plate and having a cam surface adapted to engage with the plate, reciprocable trip means operable upon overload current conditions to rotate the cam to the unlatched position, signal means for indicating when overload current conditions exceed a predetermined level, a switch arm and a moving contact on the arm, the arm being movable with the cam for moving the contact to open

and close a single circuit, the cam and the switch arm being mounted on a rotatable shaft and the contact being mounted on a portion of the switch arm from the shaft and the cam surface being a circular arc of a predetermined constant radius, the contact being movable to open and close the signal circuit, the contact closing the signal circuit during rotation of the cam toward the unlatched condition, and magnetic means being associated with the contact for maintaining the contact in a closed condition so long as the circuit interrupter is in closed position.

Compl. specn. 10 pages.

Drgs. 10 sheets

CLASS :

163051

Int. Cl.⁴ : F 28 F 13/00.

"MULTI-NOZLE SPRAY DESUPERHEATER".

Applicant : WHITE CONSOLIDATED INDUSTRIES, INC., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF DELAWARE, WITH OFFICES AT 11770 BEREA ROAD, CLEVELAND, OHIO, 44111, U. S. A.

Inventor : ROGER ERWIN JOHNSON.

Application for Patent No. 519/Del/83 filed on 28th July, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

4 Claims

A multi-nozzle spray desuperheater, comprising (a) a cage structure including a fluid flow passage formed therein, (b) a generally flat, rectangular recessed nozzle portion formed on the outer surface of said cage structure, (c) a plurality of slot-like openings formed through said cage structure and provided in a predetermined pattern across said rectangular recessed nozzle portion of the cage structure, (d) each of said slot-like openings providing a fluid flow channel extending between the fluid flow passage formed within the cage structure and the rectangular recessed nozzle portion formed on the outer surface of the cage structure, (e) a plurality of fluid nozzle elements, (f) each of said fluid nozzle elements including a swirl inducing structure and a fluid discharge opening, (g) said fluid nozzle elements being provided across and supported against said rectangular recessed nozzle portion of the cage structure whereby each of said fluid nozzle elements is in a direct fluid flow communication with one of said slot-like openings, (h) a valve seat formed at the lowermost end of the fluid flow passage formed within the cage structure and, (i) a hollow piston plug received in a leak-tight relation within the fluid flow passage formed within the cage structure and selectively axially movable within said flow passage from a lowermost position to an uppermost position and vice versa, (j) said hollow piston plug being matable with said valve seat when said hollow piston plug is at said lowermost position, (k) said hollow piston plug being positioned to physically cover and isolate from fluid flow all of said slot-like openings when said hollow piston plug is seated against said valve seat, (l) said hollow piston plug including at least one flow port formed at the topmost portion of the hollow piston plug whereby fluid flow in said flow passage formed within the cage structure will flow through said port into the interior of the hollow piston plug and toward the valve seat, (m) said hollow piston plug including an opening formed at its lowermost end, (n) said slot-like openings being progressively and sequentially exposed to flow communication with said flow passage formed within the cage structure as said hollow piston plug is selectively axially displaced within said flow passage formed within the cage structure away from said valve seat and toward the uppermost position of the hollow piston plug.

Compl. specn. 25 pages.

Drq. 3 sheets

163052

Int. Cl.⁴ : A 23 L 1/10.

"PROCESS FOR THE PREPARATION OF DIRECT EXPANDED, HIGH FAT FARINACEOUS PRODUCT".

Applicant : GENERAL FOODS CORPORATION, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, LOCATED AT 250 NORTH STREET, WHITE PLAINS, NEW YORK 10625, UNITED STATES OF AMERICA.

Inventors : CHARLES VON FULGER & WEN CHIN LOU.

Application for Patent No. 198/Del/85 filed on 11th March, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

23 Claims

A process for the preparation of a direct expanded, high fat farinaceous product of the kind such as herein described which comprises extruding a farinaceous material having from 6 to 16% oil, an effective amount of water to prepare a dough and a gas of the kind such as herein described incorporated into the dough to provide an aerated cell structure upon existing the extruder, wherein said dough is extruded for 15 to 45 seconds, at a temperature in the range of 170° F to 240° F, a pressure in the range of 200 psig to 700 psig and at shear condition such as hereinbefore described to partially gelatinize and swell but not dextrinize the starch of said farinaceous material.

Compl. specn. 27 pages.

CLASS : 32 B.

163053

Int. Cl. : C 07 c 9/00.

"METHOD AND INSTALLATION FOR RECOVERING A MIXTURE OF PROPANE, BUTANE AND PENTANE FROM A GAS CONTAINING LIGHTER COMPONENTS INCLUDING ETHANE".

Applicant : L' AIR LIQUIDE, SOCIETE ANONYME POUR L' ETUDE ET L' EXPLOITATION DES PROCÉDÉS GEORGES CLAUDE, OF 75, QUAI D' ORSAY, 75007 PARIS FRANCE, A FRENCH COMPANY.

Inventor : PIERRE GAUTHIER.

Application for Patent No. 946/Del/84 filed on 18th December, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

13 Claims

A method for recovering a mixture of propane, butane and pentane from a gas containing lighter components including ethane, the method comprising cooling the gas to be treated to a low temperature so as to partly condense the gas, removing said lighter components from the condensate by distilling it under superatmospheric pressure in a distillation column, cooling the top of said column to a second temperature substantially higher than said low temperature thereby to condense liquid at the top of the column, withdrawing from said column liquid condensed at the top of the column, modifying in a manner such as herein described said withdrawn liquid to bring it to a condition in which it boils at said low temperature, and vaporizing the modified liquid in counter current heat exchange with the gas to be treated.

Compl. specn. 12 pages.

Drq. 1 sheet

CLASS : 144 C.

163054

Int. Cl. : G 09 d 5/00.

"IMPROVEMENTS IN OR RELATING TO THE PREPARATION OF EPOXY POLYIMIDE TITANIUM DIOXIDE PAINT FOR IRRADIATION RESISTANT COATINGS".

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : SUBBIAH GURUVIAH, KUMMATTHI-DAL SANTHANAM RAJAGOPALAN VENKATASUBRAMANIAM CHANDASEKARAN, POKKYATHI JAYAKRISHNAN KANAKASABAPATHY RAGHOPATHY & VYDHIANATHAN GANESA SARMA.

Application for Patent No. 929/Del/84 filed on 10th December, 1984.

Complete specification left on 22nd July, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

8 Claims

A process for the preparation of epoxy polyimide titanium dioxide paint for irradiation resistant coatings comprising mixing rutile TiO_2 , Mica, Silica, and talc with an epoxy resin and polyimide, grinding the mixture to a fineness of Hegman grinding value of 4-5 and adjusting the consistency by mixing with an organic solvent such as herein described.

Provisional specification 3 pages.

Compl. specn. 11 pages.

163055

Int. Cl. : B 01 D 53/04.

PRESSURE SWING ADSORPTION PROCESS FOR THE SEPARATION OF A FEED GAS MIXTURE.

Applicant : UNION CARBIDE CORPORATION, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA, LOCATED AT: OLD RIDGE-BURY ROAD, DENBURY, STATE OF CONNECTICUT 06817, UNITED STATES OF AMERICA, MANUFACTURERS.

Inventor : ANDRINA FUDERER.

Application for Patent No. 217/Del/85 filed on 15 March, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

17 Claims

A pressure swing adsorption process for the separation of a feed gas mixture containing a less readily adsorbable component, an intermediately adsorbable component and a more readily adsorbable component, with recovery of said intermediate component as a desired product, in an adsorption system having at least four adsorbent beds, in each of which, on a cycle basis, undergoes a processing sequence comprising :

- (a) introducing the feed gas mixture to the feed end of the adsorbent bed at a higher adsorption pressure, with the less readily adsorbable component being discharged from the product end of the bed, and with a leading adsorption front of said intermediate component being established in the bed ahead of a trailing adsorption front of said more readily adsorbable component;

- (b) introducing to the feed end of the bed a displacement gas essentially free of the less readily adsorbable component, the molar concentration of said intermediate and/or more readily adsorbable components being greater in said gas than in the feed gas mixture, said gas being introduced such that the less readily adsorbable component is essentially completely displaced from the bed prior to initiation of intermediate component recovery;

- (c) cocurrently depressurizing said bed with discharge of said intermediate component from the product end thereof as a product of desired purity;

- (d) countercurrently depressurizing the bed to lower desorption pressure and/or purging the bed to remove said more readily adsorbable component therefrom; and

- (e) repressurizing said bed to the higher adsorption pressure.

whereby the intermediately adsorbable component can be recovered as a separate product of desired purity.

This process provides for separation and purification of gases such as hydrogen contained in a gas mixture thereof.

Compl. specn. 31 pages.

CLASS : 139 A.

163056

Int. Cl. : B 33 b 11/32.

"A PROCESS FOR THE PREPARATION OF SYNTHETIC GEMS".

Applicant : KAMESHWAR NATH MALLIK, AN INDIAN NATIONAL OF 4/23A, VIKRAM VIHAR, LAJPAT NAGAR-IV, NEW DELHI-24.

Inventor : KAMESHWAR NATH MALLIK

Application for Patent No. 233/Del/85 filed on 19th March, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

5 Claims

A process for the manufacture of synthetic gems including diamonds which comprises :

- (i) preparing in a mixer or mixing machine a raw mix consisting of :

Graphite 5 to 20% by weight
Cellulose 20 to 60% by weight
Concd. H_2SO_4 1.75 to 10% by weight
R. oil as herein defined . . . 2 to 6% by weight
Water 5 to 20% by weight.

- (ii) subjecting the said mix to a varying electromagnetic field for a period of at least 16 hours by an alternating current of 50 to 120 amps in presence of catalyst such as herein described.

Compl. specn. 9 pages.

CLASS : 139 A.

163057

Int. Cl. : B33b 11/32.

"A REACTOR FOR THE MANUFACTURE OF SYNTHETIC GEMS AND DIAMONDS".

Applicant : KAMESHWAR NATH MALLIK, AN INDIAN NATIONAL OF 4/23A, VIKRAM VIHAR, LAJPAT NAGAR-IV, NEW DELHI-110 024.

Inventor : KAMESHWAR NATH MALLIK.

Application for Patent No. 234/Del/85 filed on 19th March, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

A reactor for use in the manufacture of synthetic gems and diamonds comprising a metallic shell, two pairs of power electrodes disposed within said shell, one pair of said electrodes adapted to be connected to a three phase power source, a first electrode of the other pair also connected to said power source, the second electrode of said other pair being connected to earth, a graphite bed surrounding one of said power electrodes.

Compl. Specn. 5 pages.

Drg. 1 sheet.

CLASS :

163058

Int. Cl.⁴ : B 25B, 21/00, 23/145.

BACK-UP TONGS FOR SECURING A FIRST TUBULAR MEMBER AGAINST AXIAL ROTATION.

Applicant : ECKEL MANUFACTURING CO., INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATES OF TEXAS, U. S. A., OF P. O. BOX 1375, ODESSA, TEXAS, U. S. A.

Inventor : VERN CURRY.

Application for Patent No. 517/Del/85 filed on 1st July, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

A back-up tong for securing a first tubular member against axial rotation in response to rotation of a second tubular member by a pipe-rotating device, said back-up tong comprising :

a frame member having a first opening for receiving said first tubular member;

a ring member fixedly interconnected with said frame member and having a plurality of cam surfaces on said ring member;

a cage plate assembly rotatably mounted in said ring member and having a second opening aligned with said first opening for receiving said first tubular member;

a plurality of heads being cam followers carried by said cage plate assembly and co-operating with said cam surfaces on said ring member for being urged into engagement with said first tubular member upon rotation of said cage plate assembly;

a pivot bar mounted on said frame member and rotatable relative to said cage plate assembly;

a first fluid powered cylinder connected at one end to said pivot bar and connected at the other end to said frame member; and

a second fluid powered cylinder connected at one end to said pivot bar and connected at the other end to said rotatable cage plate assembly.

Compl. Specn. 20 pages.

Drgs. 2 sheets.

163059

Int. Cl.⁴ : E21B 43/20, 43/22, C 10 G-1/04.

PROCESS FOR AN ENHANCED OIL RECOVERY.

Applicant : UOP INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE IN THE UNITED STATES OF AMERICA, WITH ITS PRINCIPAL PLACE OF BUSINESS LOCATED AT TEN UOP PLAZA, ALGONQUIN & MT. PROSPECT ROADS, DES PLAINES, ILLINOIS 60016, U. S. A.

Inventor : THOMAS PATRICK MALLOY AND RAYMOND JOHN SWEDO.

Application for Patent No. 655/Del/85 filed on 9th August, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

In a process for an enhanced oil recovery wherein an aqueous surfactant slug is introduced into a subterranean reservoir of oil to displace said oil from said reservoir, said slug being in a sufficient amount to lower the interfacial tension between said oil and water, the improvement which comprises utilizing as said surfactant slug an aqueous mixture comprising :

(a) from about 1 to about 10% of a sulfonate of a mixture of mono- and dialkyl-substituted aromatic hydrocarbons prepared by the alkylation of an aromatic hydrocarbon with a straight or branched chain olefinic hydrocarbon containing from about 6 to about 22 carbon atoms in the chain in the presence of hydrogen fluoride at alkylation conditions;

(b) from about 1 to 10% of a lower alkyl alcohol containing from about 3 to 6 carbon atoms; and

(c) from about 0.1 to about 2% of a nonionic ethoxylated normal alcohol containing from about 12 to 15 carbon atoms.

Compl. Specn. 24 pages.

163060

Int. Cl.⁴ : F28F 13/00.

"MULTI NOZZLE SPRAY DESUPERHEATER".

Applicant : WHITE CONSOLIDATED INDUSTRIES, INC., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE WITH OFFICES AT 11770 BERE A ROAD, CLEVELAND, OHIO 44111, U. S. A.

Inventor : ROGER ERWIN JOHNSON.

Application for Patent No. 544/Del/86 filed on 20th June, 1986.

Ante-dated to 28th July, 1983.

Divisional to Application No. 519/Del/83 filed on 28th July, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

2 Claims

A multi-nozzle spray desuperheater comprising (a) a cage structure including a fluid flow passage formed therein, (b) a plurality of fluid nozzle elements mounted on the outer surface of said cage structure and arranged across said surface in a predetermined array, (c) each of said fluid nozzle elements being in direct fluid flow communication with the fluid flow passage formed within the cage structure, (d) a valve seat formed at the lowermost end of said fluid flow passage formed within the cage structure, (e) a hollow piston plug received within the fluid flow passage formed within the cage structure and selectively axially movable within said flow path from a lowermost position to an uppermost position and vice-versa, (f) said hollow piston plug being matable with said valve seat when said hollow piston plug is at said lowermost position, at least one sealing piston ring mounted about the outer surface of said hollow piston plug at a predetermined distance above the lowermost end of the hollow piston plug

to provide a leak-tight relation between said hollow piston plug and the fluid flow passage formed within the cage structure, (g) said hollow piston plug including at least one flow port formed at the topmost portion of the hollow piston plug whereby fluid flow in said flow passage formed within the cage structure will flow through said port into the interior of the hollow piston plug and toward the valve seat, (h) said hollow piston plug including an opening formed at its lowermost end, (i) said hollow piston plug being positioned to physically isolate from fluid flow all of said fluid nozzle elements when said hollow piston plug is seated against said valve seat, (j) said fluid nozzle elements being progressively and sequentially exposed to flow with said flow passage formed within the cage structure as said hollow piston plug is selectively axially displaced with said flow passage formed within the cage structure away from said valve seat and toward the uppermost position of the hollow piston plug, the swirl inducing structure of each of the fluidised elements, and (k) a predetermined clearance between said hollow piston plug and the flow passage formed within the cage structure whereby at least a portion of fluid flow egressing from the opening formed at the lowermost end of the hollow piston plug undergoes a flow reversal around the lowermost end of the hollow piston plug into said clearance when said hollow piston plug is axially moved away from said valve seat (i) said at least one sealing piston ring acting to prevent fluid flow in said clearance beyond the predetermined distance above the lowermost end of the hollow piston plug and defining a throttle edge whereby said throttling edge acts to throttle fluid flow in said clearance into the fluid nozzle element.

Compl. Specn. 26 pages.

Drgs. 3 sheets.

162961

162968

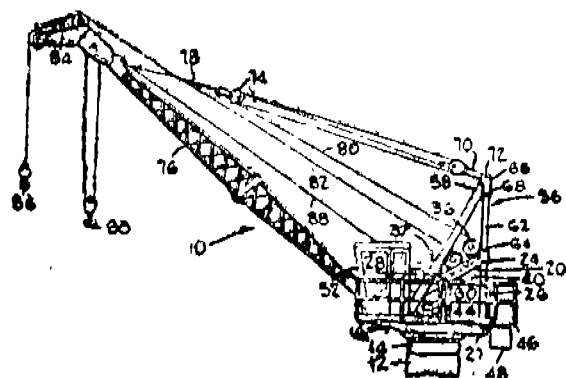


Fig. 1

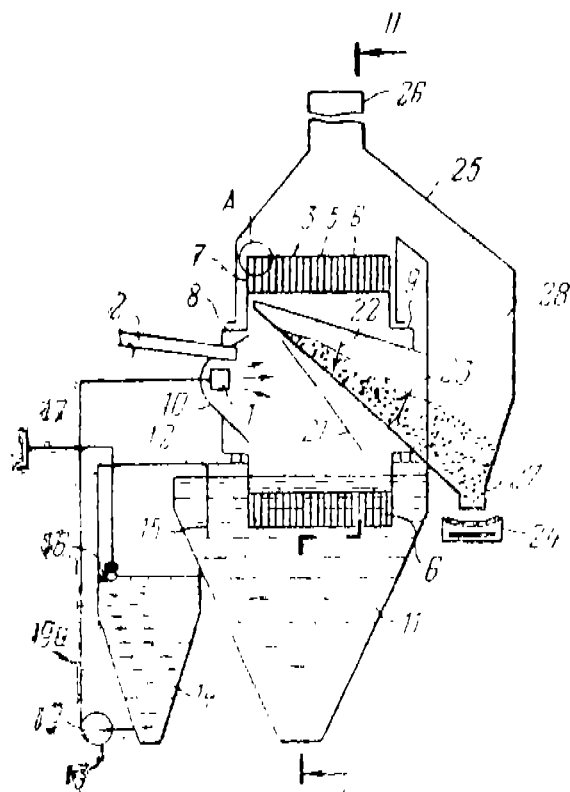


Fig. 1

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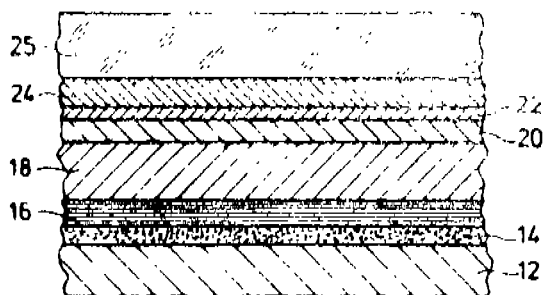


Fig. 1

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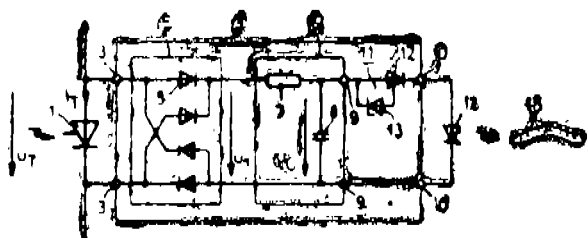


Fig. 1

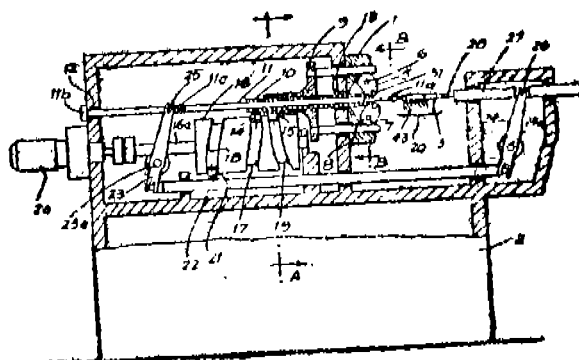


Fig. 1

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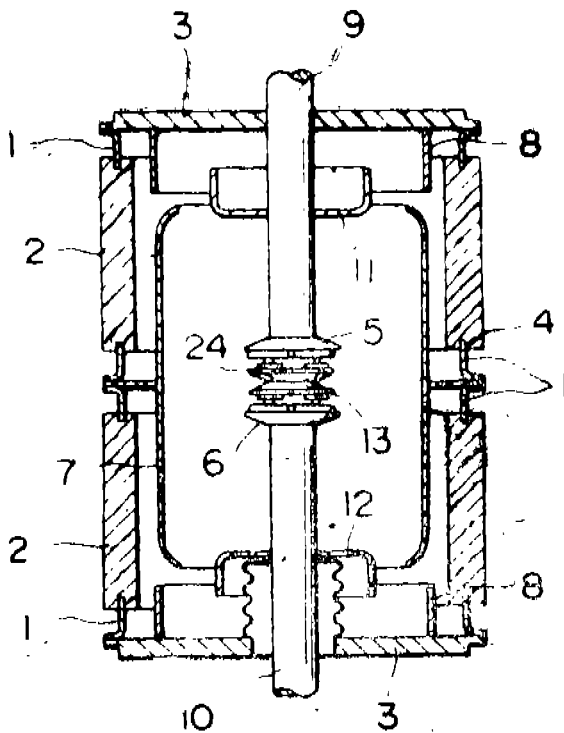


Fig. 1

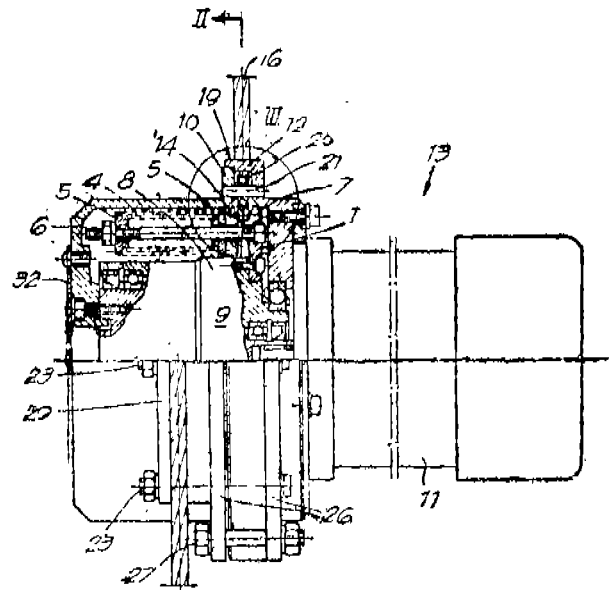


Fig. 1

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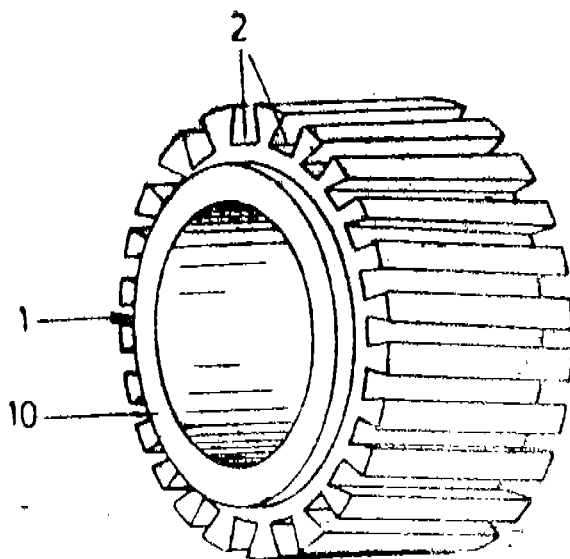


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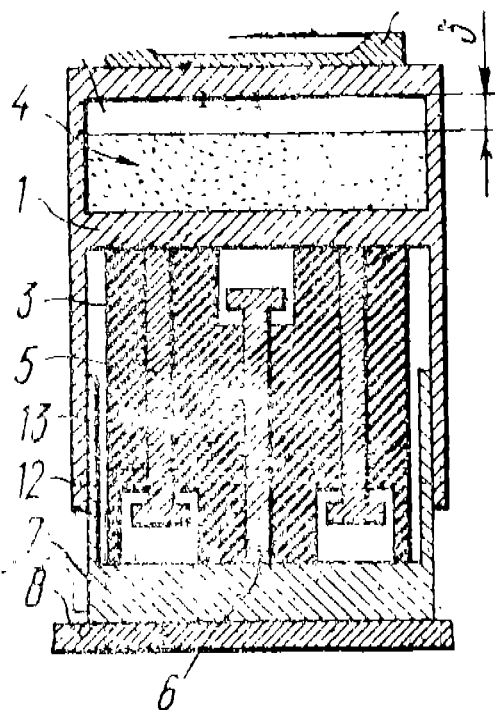


Fig. 1

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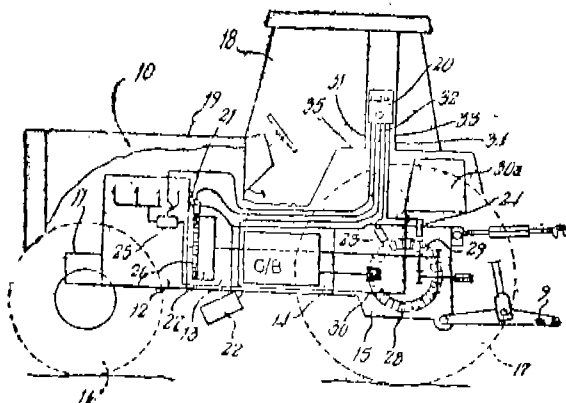


Fig. 1

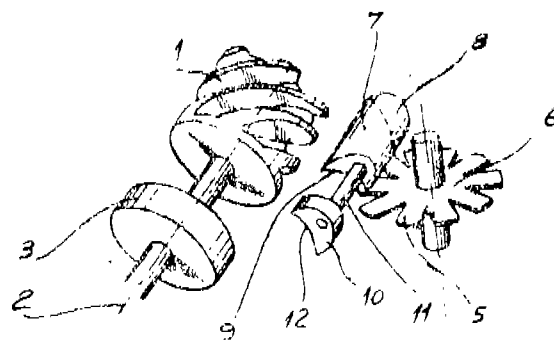


Fig. 1

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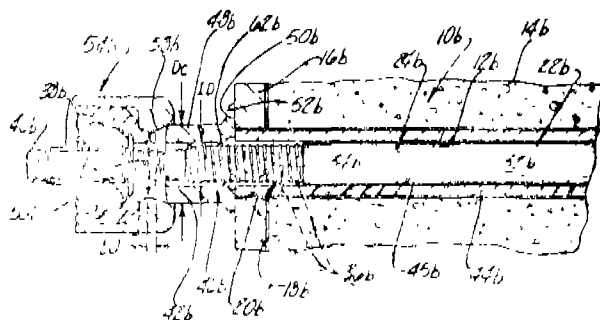
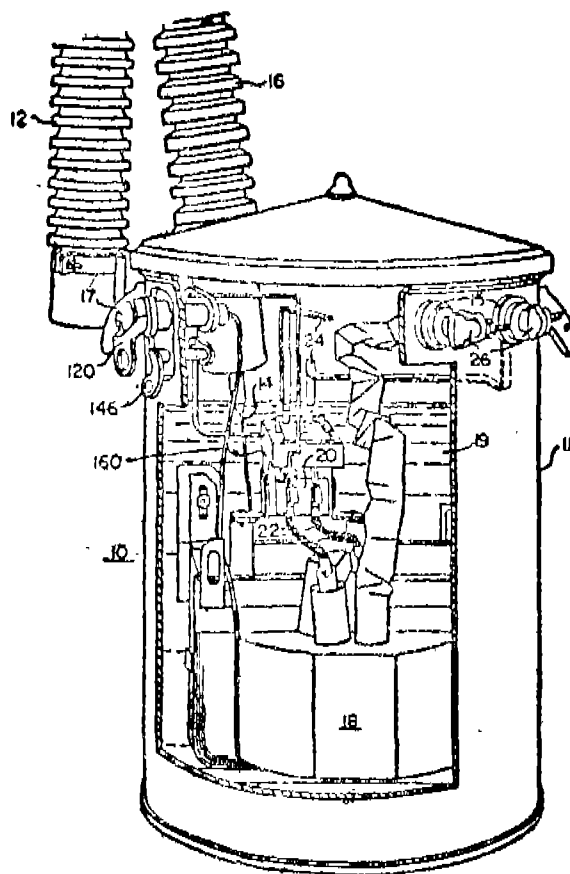
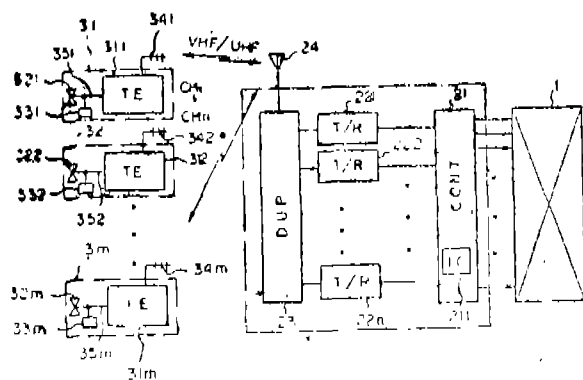


Fig. 5



163047

Fig 1



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